

Navy Modernization - SHIPMAIN Process Map 17 May 04
Dated: 17 May 04

Block	Process Block	Owner	Dated
1	Create Ship Change Document	Bob Stout	17 May 04
2	NDE	Bob Stout	17 May 04
3	Phase 1 Technical Assessment	LCDR Tate	17 May 04
4	Calculate AFOM	LCDR Gaffe	17 May 04
5	Cost Benefit Analysis	Odell Smith	17 May 04
6	Recommended Change Package	Bob Stout	17 May 04
7	Decision Point 1 - Authorize Fund Preliminary Engineering	Bob Stout	17 May 04
8	Acquisition Milestone A	Bob Stout	17 May 04
9	Develop System Performance Specs	LCDR Tate	17 May 04
9a	Develop System Performance Specs	LCDR Tate	17 May 04
10	POM Input to Modernization Plan	Odell Smith	17 May 04
11	Update Technical Assessment	LCDR Tate	17 May 04
12	Update AFOM Calculation	LCDR Gaffe	17 May 04
13	Update Cost Benefit Analysis	Odell Smith	17 May 04
14	Update Recommended Change Package	Odell Smith	17 May 04
15	Decision Point 2 - Authorize Fund Design Development	Bob Stout	17 May 04
16	Rework	Bob Stout	17 May 04
17	Acquisition Milestone B	Bob Stout	17 May 04
18	POM Input to Modernization Plan	Odell Smith	17 May 04
19	Design Development	LCDR Tate	17 May 04
20	Update Technical Evaluation	LCDR Tate	17 May 04
20a	Update Technical Evaluation	LCDR Tate	17 May 04
21	Update AFOM Calculation	LCDR Gaffe	17 May 04
22	Update Cost Benefit Analysis	Odell Smith	17 May 04
23	Update Recommended Change Package	Odell Smith	17 May 04
24	Decision Point 3 - Authorize Fund Procurement and Installation	Bob Stout	17 May 04
25	Rework	Bob Stout	17 May 04
26	Acquisition Milestone C	Bob Stout	17 May 04
27	Authorize and Issue LOA	LCDR Tate	17 May 04
28	Headquarters Centrally Procured Material	Bob Stout	17 May 04
29	POM Input to Modernization Plan	Odell Smith	17 May 04
30	Technical Implementation	LCDR Tate	17 May 04
31	PY Activity	LCDR Tate	17 May 04
32	Alt/Mod Ready to Install	LCDR Tate	17 May 04
	To ICMP and CSMP Activate 2K	LCDR Tate	
33	Execute Initial Install	Bob Stout	17 May 04
34	Feedback	Bob Stout	17 May 04
35	Future Installs	Bob Stout	17 May 04
	Cost Increase > 25%	Odell Smith	
36	Rework	Bob Stout	17 May 04
37	Complete Future Installs	Bob Stout	17 May 04

38	Feedback	Bob Stout	17 May 04
39	NDE	Bob Stout\	17 May 04

TASK TITLE: 1 – Create Ship Change Document

LEAD ORGANIZATION: See 1.2 below

SUPPORT ORGANIZATIONS: See 1.1 below

GOAL/DESCRIPTION

Enter and validate the minimum required information for a Ship Change Document to initiate a Configuration Change for ships and shore facilities. The Ship Change Document form is the template vehicle for reviewing data throughout the process. The SCD defined here will provide access to the FOM, CBA, and Technical Evaluation for each Configuration Change.

SUB TASKS	RESPONSIBILITY
○ Prepare SCD	○ 1.1 RMC, ISEA, SSA, Planning Yard, Contractor1
○ Authorize SCD	○ 1.2 Type Commander, OPNAV, PEO, PARMs/LCMs.

INPUT

- Required data as outlined below in Data Elements

OUTPUT (DELIVERABLES)

- Ship Change Document
- Generate expedite alert.

METRICS

- SCD preparation and submittal cycle time
- Preparation and submittal dates

BUSINESS RULES (CRITERIA)

- The preparer shall provide data for all mandatory SCD fields at a minimum prior to submission to the submitter.
- A preliminary tracking number shall be automatically assigned by the system (NDE).
- The preparer and the submitter shall have the ability to review the draft SCD at any time in the preparation process.
- This form shall be able to be viewed at any point in the process once submitted.
- Minimum header data required to uniquely define the Configuration Change (functional definition, class effectivity, functional areas).
- Fleet requirement, description of change, and impact to the Fleet if not accomplished.
- The submitter will either approve and put into NDE officially or kill the Configuration Change.
- The submitter will ensure there are no duplicate SCDs.
- Expedite alert box should be checked yes when operational readiness (i.e., correction of a C4 CASREP) or safety to personnel.
- Submitter shall be able to identify previously shelved alterations and resubmit to process using previously assigned Configuration Change identification.

- Submitter shall be able to expedite alts that are considered to be critical by Fleet: sets an “Expedite” flag in SCD. Expedited SCDs are considered first in any process work queue.
- All authorized SCDs shall be assigned a sequential number by the system (NDE).

NOTES/QUESTIONS

- This form should be identical to the final Ship Change Document form but does not have all the fields completed.
- Should we capture to history ideas disapproved by the SCD submitter? Resolution: history will not start until SCD is submitted.
- This includes ship and shore facilities and equipment SCDs. Does not include shore only configuration changes (outside scope).

SCD PREPARERS:

- ISEAs
- SSAs
- PLANNING YARDS
- RMCs
- As well as all SCD submitters

SCD SUBMITTERS

- OPNAV Resource Sponsors
- Fleet/Type Commanders
- Participating Managers (PARMs)
- Ship Program Managers (SPMs)

DATA ELEMENTS (*required data for submittal)

- *Brief
- *Alt Description
- *Purpose/Impact if not accomplishedCFC Type
- Resp Command (SPAWAR, NAVSEA)
- TMA/TMI
- Mandated Alt
- Topside Imp
- *Alt Designation (Functional Effectivity, i.e. C4I HM&E, C/S)
- *Preparer
- *Submitter
- *Prepare Date
- *Submittal Date
- *Sequence Number
- Configuration Change Number
- Support Svcs
- AIT Capable
- Alt Impl Lvl
- Tempest
- Subsafe
- Drydock Req
- Funding Type (Fleet/program)
- Est Mandays
- *Safety Ind
- ACAT I-IV
- Surv Alt
- W/M Impact

- Total Cost Est
 - Install Cost Est.
 - Inc. Matl Cost Est
 - Equip Cost Est

Technical Expert POC information

- Name
- Email
- Phone (com)
- Phone (dsn)

Assign Ship Classes

*Security Classification

Expedite request- if yes, provide justification

*Estimated IOC

TASK TITLE: 2 - NDE

LEAD ORGANIZATION: NAVSEA 04RP

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

This is not a process step, but the beginning of the entitled process for metric purposes. This block signifies that NDE is the authoritative source for all data related to SHIPMAIN.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ NDE identify MP: those approved, funded SCDs○ Classify SCDs by inactive or active○ Active SCDs shall be classified by stage of development (including rework)○ Inactive SCDs shall be classified as:○ SCDs superceded by new SCD○ SCDs killed outright (by whom and when)<ul style="list-style-type: none">○ Low priority or obsolete○ SCDs no longer desired○ SCDs completed on all active hulls○ SCDs without funding○ Note: for any one of these statuses there may be sub statuses, for example, tech hold	<ul style="list-style-type: none">○ N/A

INPUT

- All submitted SCDs

OUTPUT (DELIVERABLES)

- N/A

METRICS

-

BUSINESS RULES (CRITERIA)

- Only active SCDs shall execute resources.
- If a decision is made to kill a SCD, all close-out costs shall be identified.
- All SCDs shall be visible and available for query based on data access rights.
- Access is limited to those with the appropriate roles and rights as defined by the business rules in the entitled process steps.
- Prior to Decision Point 1 submitter can withdraw any SCD.
- Any SCD that has passed Decision Point 1 will require approval to be withdrawn.
- All withdrawn SCDs will be placed in Inactive.

NOTES/QUESTIONS

- Need to look at DP 2 and 3 for specific rules on required approvals to be withdrawn on SCDs that have had money spent on them.

TASK TITLE:

3 – Phase I Technical Assessment

LEAD ORGANIZATION:

Ship Program Manager (SPM) – (PEO Ships FT & PEO Carriers TD)

SUPPORT ORGANIZATIONS:

PARM's, SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Five (5) days to review inputs for completeness and technical feasibility will not include any subjective opinion of merit. All candidates for change shall receive fair, unbiased assessments by 'Entitled' Technical Assessment Team (TAT).

SUB TASKS	RESPONSIBILITY
BLOCK 1 & 2 <ul style="list-style-type: none"> ○ Determine Cognizant Authorities and Technical Warrant Holder as necessary. ○ Distribute change to Cognizant Authority and Technical Warrant Holder. ○ Assign due date for reviews. 	<ul style="list-style-type: none"> ○ Change Manager
BLOCK 3 <ul style="list-style-type: none"> ○ Assess the description, justification, feasibility and impacts of proposed change. ○ Communicate with originator to resolve issues if necessary. ○ Make assessment to combine Phase II and Phase III. ○ Identify existing changes that may be superceded or impacted. ○ Make and document recommendation. ○ Forward SCD Phase I and technical recommendation to Ships Program Manager (SPM). 	<ul style="list-style-type: none"> ○ TAT Lead
BLOCK 4 THRU 6 <ul style="list-style-type: none"> ○ SPM provides recommendation. ○ Forward to AFOM and CBA. 	<ul style="list-style-type: none"> ○ SPM

INPUT

- Draft Ship Change Document (SCD) Phase I

OUTPUT (DELIVERABLES)

- Completed Technical Section of SCD Phase I

METRICS

- How many changes enter workflow process?
- How many changes get recommended/not recommended by technical assessment team?
- How many changes get recommended/not recommended by SEA O8?
- How many changes get recommended/not recommended by SPM?
- How many changes are recommended for consolidation of phases II and III?
- Time between subtasks?

BUSINESS RULES (CRITERIA)

- SPM cannot send a change idea to history.
- Any negative recommendation must include a justification.
- Due to limited engineering requirements and limited impacts to existing equipments and the ships, some changes may be permitted to have Phase II and Phase III combined. In order to determine if there is sufficient reason to combine these two phases for a particular change, the Technical Assessment Team must consider the Scope (SCD Phase I, Item 3.a) of the change.
- Guidelines for combining of phases II and III:
 - If the Scope is Internal Equipment Modification, all of the following criteria must be met:
 - ❖ The change can be accomplished without changing an interface external to the equipment or system.
 - ❖ The change is made within the equipment or system.
 - ❖ The change does not negatively impact Battle Force/Strike Force Interoperability.
 - ❖ The change does not impact shipboard distributive systems (i.e. water, ventilation, electrical, power, etc.), Ship Selected Records (SSRs) or interfacing equipment or systems, compartmental arrangement records; or Damage Control records.
 - If the scope is Ship Modification all of the following criteria must be met:
 - ❖ The change does not negatively impact Battle Force/Strike Force Interoperability.
 - ❖ The change does not impact ship's stability records (weight & moment).
 - ❖ The change does not impact or alter the 3-dimensional footprint of the equipment being replaced.
 - ❖ The change does not impact shipboard distributive systems (i.e. water, ventilation, electrical, power, etc.), Ship Selected Records (SSRs) or interfacing equipment or systems; compartmental arrangement records; or Damage Control records.
 - ❖ The change does not impact manning levels.
 - Duration of Alteration is designated as Temporary. This type of change will adhere to the following guidance: (NOTE: These Temporary changes will not include Test and Evaluation (T & E) changes)
 - ❖ Installation will be onboard for one deployment cycle or one (1) year.
 - ❖ A TEMPALT Data Package will be prepared.
 - If all of the guidelines listed above are met, the technical assessment team may recommend Phases II and III be combined.
 - If the Phase I 0-6 Board determines Phases II and III can be combined, then both Phases II and III of the SCD must be completed before going to the Phase III 0-6 Board.
- TAT will be allowed to change fields to correct data. If any information is changed a record of the change will be kept and the submitting POC notified for concurrence.

- Identify changes that may supersede or be redundant with an existing change.
- TAT recommendation will include:
 - Combine Phase II and III
 - Superseded or redundant change
 - FORCENET compliant
- Should the SPM require additional clarification, endorsement will not be forwarded prior to attempting issue resolution via TAT Lead.
- Unresolved issues will be noted in the Technical review comments and forwarded.

TASK TITLE: Block 4: Calculate AFOM

LEAD ORGANIZATION: FFC (N43, N6, N8)

SUPPORT ORGANIZATIONS: CNAF/CNSF/RMC/ATG (N43, N6, N8)

GOAL/DESCRIPTION

CREATE AN INITIAL ALTERATION FIGURE OF MERIT (AFOM) THAT WILL BE CALCULATED AS A MEASURE OF THE RELATIVE IMPROVEMENT/BENEFIT A CFC CONTRIBUTES TO SHIPS CAPABILITY.

ACTIONS/EVENTS

- CFC mapped by Naval Capability
- CFCs routed to cognizant TYCOMs
- Canvases appropriate SMEs for input
- Review SME inputs
- Enter Indexed values into NDE
- Cognizant TYCOM Inputs consolidated
- Algorithm calculates Total AFOM and AFOMs by NCP /MCP
- AFOM scores entered into NDE

RESPONSIBILITY

- NDE
- FLEET PANEL/NDE
- TYCOM
- TYCOM
- TYCOM
- NDE
- NDE
- SEA04L

INPUT

- 3-Star and Fleet Weighting Boards weights from AFOM Benefit Structure (Annually)
 - AFOM Benefit Structure will mirror Naval Power 21 Pillar and Capability Package Structure
- CFC Attributes via SCD (see below)
 - Attributes mapped via NDE into Naval Power 21 Structure

OUTPUT (DELIVERABLES)

- Initial AFOMs
 - Format is 0-100 (Identifier from SCD) e.g. : “35 (M)” with following default outputs on Recommended Change Package:
 - Overall AFOM
 - Capability AFOM
 - Suitability AFOM
 - Sea Base
 - Sea Strike
 - Sea Shield
 - ForceNet
 - Quality of Service/Quality of Life

DOCUMENTS/PROGRAMS (generated or modified during this step)

METRICS

- Turnaround on generating and updating an AFOM (in terms of days from point of receipt by TYCOM and entry of Rating Scale data back into NDE).
- Distribution of CFCs by AFOM criteria.
- How many CFCs returned for additional information

BUSINESS RULES (CRITERIA)

Assumptions:

- CFC will have an assigned JTEDS Nomenclature (AN/XX) for C4I, MK/MOD for Weapons Systems, ESWBS for HM&E.
- Index values will be assigned by the TYCOMs with solicited input from Fleet SMEs, here on out referred to as a Fleet Panel.
 - This process will be manual entry by TYCOMs into NDE.
- Assumed throughput is 300 new CFCs a month with CFCs on schedule for the next Decision Board requiring an update.
 - TYCOMs will assign the index numbers after considerations of SME inputs.
- Minimum requirements in the Phase I SCD possesses have sufficient information for AFOM reviews.
 - Statutory
 - Applicability to Naval Power 21 Capabilities (further mapped in NDE by Mission and Naval Capability Package)
 - What is the proposed change designed to eliminate, increase, reduce, or resolve.
 - QOS/QOL
 - Habitability, Personal Survivability, HCI/© EOSH applicability
 - Reliability, Maintainability, Operational Availability, Supportability Improvements
 - Ship Safety and Personnel Safety
- TYCOMs determine from which SMEs to draw feedback.
- CFCs are pushed from NDE/NTIRA interface to all TYCOMs after Phase I Tech Eval update.

Selectable Views in the Business Case will include a:

- CFCs sorted (Ranked) by AFOM
- CFCs sorted by equipment/system (system/equipment for which alt was designed)
 - Scatter chart of AFOM vs CFC Reference Number
 - Ranked AFOM with LOW AFOM line superimposed; the Decision Board members shall have the capability to view all CFCs that fall below the LOW AFOM line in a summary window
 - Drill-down capability in the Business Case to show AFOM vs any attribute(s) in the AFOM Benefit Structure NP-21 Pillar, NCP, MCP

Identifiers Include:

- Statutory requirements will be assigned the Maximum AFOM (100) and a (M) identifier; Statutory Requirements will be sent directly to the RCP and will not require TYCOM assessment for Phase I, III or III or IIA.
- Naval Capability(s) that the CFC will address from the NP-21 Structure; - Statutory: (S); Mandatory Safety (M); Conjunctive ©; Joint Interoperability (J); Force CDR Expedite (E), TMA/TMI (T);Conjunctivity (C); Regulatory (R)
 - The (S), (M), (T) , (E) (R) Identifiers will include mandatory pulldown windows in the SCD that require the entry of specific alpha-numeric reference numbers to ensure

tracability of these attributes to the appropriate agency. PARMs and SPMs shall ensure that these reference numbers are available before entering data into the NDE-NM CFC Module.

If a CFC is disapproved the JTEDS Nomenclature (AN/XX) for C4I, MK/MOD for Weapons Systems, ESWBS for HM&E must be cancelled.

TASK TITLE: 5 – Cost Benefit Analysis

LEAD ORGANIZATION: PARMs

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Run CREI test, Rough Order of Magnitude (ROM) level, including:<ul style="list-style-type: none">○ Cost estimate○ Cost avoidance○ Projected savings○ Return on investment (ROI)○ When benefits occur○ Potential manning impact○ Non-ship (DoD/USN) infrastructure support/interoperability (USN/Joint) requirements○ Each Class/Ship impacted○ Ship interface/impact○ Total Human Systems Integration impact	<ul style="list-style-type: none">○

INPUT

- Alt/Mod Concept Input Form (Ship Change Document)
- Tech Eval information

OUTPUT (DELIVERABLES)

- Decision – pass/fail initial CBA
- CBA Analysis

METRICS

- Do the total costs related to people and the factors of HSI decrease or increase due to this ALT/MOD?

BUSINESS RULES (CRITERIA)

- For ideas that provide an increased capability, is benefit worth the cost? When is benefit realized?
- For ideas that do not provide an increased capability, is ROI positive? When is break even point?

NOTES/QUESTIONS

- Data Elements
 - Narrative Description of the Initiative
 - Documentation of As Is Baseline
 - Cost elements

- Methodology for estimating current costs
 - Cost Data Documentation
 - Inflation adjustment
 - Usage / Maintenance
- Spreadsheet
- Ship Change Document (SCD) Input into NDE.
- CR&EI Template (populated from SCD)
- NDE Cost Data Fields (populated from CR&EI Template)
- Basis of Cost Estimates Documented in NDE
- Ship Class Applicability
- Description of alteration benefit as compared to current capability or alternative
- ROI
- NPV
- Pay-Back Period
- Life Cycle Cost

TASK TITLE: 6 – Phase 1 Ship Change Document (SCD)

LEAD ORGANIZATION: Ship Program Manager

SUPPORT ORGANIZATIONS: SYSCOMS, TYCOMS, OPNAV

GOAL/DESCRIPTION

Finalize SCD for submittal to O-6 Review Board.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Compile results from SCD initial review for:<ul style="list-style-type: none">• TECH Assessment• AFOM Assignment• Cost Data○ <u>Identify funding sources.</u>○ Pass to queue for DP1.	<p>SPM Technical Team</p> <p>AFOM Team</p> <p>SPM/SEA 017 Cost Analysis Team</p> <p>Resource Sponsor</p> <p>Resource Sponsor</p>

INPUT

- SCD

OUTPUT (DELIVERABLES)

- SCD completed with SPM recommendation for alteration to proceed within entitlement process for preliminary engineering

METRICS

- NA

BUSINESS RULES (CRITERIA)

- Submitter will coordinate as required with SPMs, PARMs, TYCOMS, and OPNAV resource sponsors to ensure adequacy and accuracy of the SCD.
- Results of Tech Eval, AFOM and CBA will be submitted to the Resource Sponsors, and the Resource Sponsor will identify sources of funding.
- After the Tech Eval, AFOM and CBA are reviewed and funding sources provided by the RS, the RS will process SCD and place it into the queue for Decision Point 1.
- SCDs submitted as expedite will be processed not to exceed 7 working days.
- Non-expedited SCDs will be processed not to exceed 20 working days.

NOTES/QUESTIONS

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TASK TITLE: 7 – Decision Point 1 (Authorize Fund Preliminary Engineering)

LEAD ORGANIZATION: TYCOM for Fleet Alteration
 SYSCOM for Program Alteration
 OPNAV N6, N7

SUPPORT ORGANIZATIONS: O-6, 1-2 Star, and 3 Star Boards (See list of decision stakeholders)

GOAL/DESCRIPTION

Block 7 is a process to create a Modernization Plan (MP) and recommend that funds be included in the POM for the entitled process for Fleet modernization (preliminary engineering through installation). The combination of the inputs from previous steps (CBA, AFOM, Technical Evaluation, etc.) are used by the stakeholders to vote on recommended SCDs. Process will support expedited SCDs to meet Fleet requirements.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none"> ○ O-6 Review Board <ul style="list-style-type: none"> ○ Shall meet continuously on a virtual basis and consider all SCDs ○ Kill O-6 level SCDs ○ Approve and recommend for funding O-6 level SCDs ○ Make recommendations, including Acquisition Category (ACAT) designation, for 1-2 Star and 3 Star level SCD to be killed or approved and funded ○ Send back SCDs to submitter for rework ○ Expedited SCDs will require the additional tasks: <ul style="list-style-type: none"> ▪ O-6 Board shall review, comment, and recommend on the criteria of SCD expedition ▪ Make a recommendation on MP impact (recommend based on funding requirements to higher authority?) ○ 1-2 Star Review Board <ul style="list-style-type: none"> ○ SCDs shall be batched and presented to the 1-2 Star for consideration on a periodic basis TBD ○ Shall meet continuously on a virtual basis and consider expedited SCDs ○ Endorse/override O-6 level SCD decisions ○ Kill 1-2 Star level SCDs ○ Approve and recommend for funding 1-2 Star level SCDs, including ACAT 3 ○ Make recommendations (including ACAT designation) for 3 Star level SCDs to be killed or approved and funded ○ Send back to submitter for rework ○ 3 Star Review Board <ul style="list-style-type: none"> ○ SCDs shall be batched and presented to the 3 Star for consideration on a periodic basis TBD ○ Shall meet continuously on a virtual basis and consider expedited SCDs 	<ul style="list-style-type: none"> • Board Members

<ul style="list-style-type: none"> ○ Endorse/override O-6 and 1-2 Star level SCD decisions ○ Kill 3 Star level SCDs ○ Approve and recommend for funding 3 Star level SCDs, including ACAT 1 and ACAT 2 ○ Send back to submitter for rework ○ Recommend Modernization Plan (annual) to CNO 	
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INPUT

- Ship Change Document complete including all minimum required data such as:
 - AFOM
 - CBA
 - Tech Eval
- ACAT definitions per SECNAV instruction
- PARM, SPM, RS need to determine impact to existing MP (Gaming) for expedited SCDs (provide recommended offsets)

OUTPUT (DELIVERABLES)

- **O-6 Review Board**
 - All approved O-6 level SCDs for inclusion in the MP
 - Recommendations for 1-2 Star and 3 Star level SCDs
 - Killed O-6 level SCDs
 - SCDs to be clarified or reworked
 - Concur/recommend preliminary engineering plan
 - Potential ACAT/Non-ACAT designation from applicable PM
 -
 - For expedited SCDs, shall concur with the requirement to expedite
 - Reprogramming/offsets for expedited SCDs and notification of budgetary impacts to all concerned
- **1-2 Star Review Board**
 - Endorse/override all approved O-6 level SCDs for inclusion in the MP
 - All 1-2 Star level SCDs for inclusion in the MP
 - Recommendations for 3 Star level SCDs
 - Killed 1-2 Star level SCDs
 - SCDs to be clarified or reworked
 - Concur/recommend preliminary engineering plan
 - Potential ACAT/Non-ACAT designation from applicable PM
 - For expedited SCDs, shall approve/concur with the requirement to expedite
 - Reprogramming/offsets for expedited SCDs and notification of budgetary impacts to all concerned
- **3 Star Review Board**
 - Endorse/override all approved O-6 and 1-2 Star level SCDs for inclusion in the MP
 - All 3 Star level SCDs for inclusion in the MP
 - Killed 3 Star level SCDs
 - SCDs to be clarified or reworked
 - Approve preliminary engineering plan
 - Potential ACAT/Non-ACAT designation from applicable PM
 - For expedited SCDs, shall approve the requirement to expedite
 - Reprogramming/offsets for expedited SCDs and notification of budgetary impacts to all concerned
 - Approved Modernization Plan (annual)

METRICS

○

BUSINESS RULES (CRITERIA)

- **O-6 Review Board**
 - Considers (approve, kill, send back for rework) all SCDs submitted to the entitled process.
 - If a SCD meets certain ACAT threshold O-6 group shall approve or kill.
 - If a SCD is above O-6 threshold, shall review, comment and recommend to kill or approve.
 - For expedited SCDs, shall concur with the requirement to expedite or recommend that the expedite flag be removed from the SCD.
 - Shall concur with the recommended offsets for expedited SCDs or return to submitter for rework.
- **1-2 Star Review Board**
 - Endorse/override all O-6 level SCDs.
 - If a SCD meets certain ACAT threshold 1-2 Star group shall approve or kill.
 - If a SCD is above 1-2 Star threshold, shall review, comment and recommend to kill or approve.
 - For expedited SCDs, shall concur with the recommendation from the O-6 Board.
 - All deflagged SCDs will continue through the process as a non-expedited SCD.
 - Shall concur with the recommended offsets for expedited SCDs or return to submitter for rework.
- **3 Star Review Board**
 - Endorse/override all O-6 and 1-2 Star level SCDs.
 - If a SCD meets certain ACAT threshold 3 Star group shall approve or kill.
 - Will submit an annual Modernization Plan.
 - For expedited SCDs, shall approve the recommendation from 1-2 Star Board.
 - All deflagged SCDs will continue through the process as a non-expedited SCD.
 - Shall concur with the recommended offsets for expedited SCDs or return to submitter for rework.
- All ACAT 1 and 2 programs and non-ACAT SCDs exceeding \$xxx will be reviewed at 3 Star level.
- All ACAT 3 and 4 programs and non-ACAT SCDs exceeding \$xxx will be reviewed at 1-2 Star level.
- All other SCDs will be reviewed at O-6 level.
- Any SCD returned for rework may be resubmitted or the submitter can make it Inactive.
- Any SCD submitted for rework shall be returned to submitter.
- Submitter shall be notified if their SCD is killed.
- Submitter shall be notified if their alt has been authorized for preliminary engineering.
- All SCD (active or killed) data shall be maintained in NDE-NM (system level Business Rule).
- If the SCD is killed, no further resources shall be applied to this SCD.
- Any expedited SCD provided for consideration shall include funding offsets required for the execution of the total program including CY and/or CY+1 requirements. Funding offsets identified shall have concurrence from applicable Resource Sponsors and PMs/PEOs. This would include the Fleet option of funding from Fleet maintenance funds.

NOTES/QUESTIONS

- Define O6/1-2 star limit of authority to recommend proceeding within the entitlement process for inclusion in the Modernization Plan . Recommend O6 Review Board

- authority to recommend and execute for non-ACAT and ACAT IV; 1 and 2 Star Board recommend inclusion in Modernization Plan for ACAT III; 3 Star Review Board recommend inclusion in Modernization Plan for ACAT I and II programs. All recommendations will be forwarded to the next higher authority for concurrence.
- Recommend budget, commencing POM 06 a .5 percent of TOA to permit execution of PHASE II/IIA emergent SCDs

TASK TITLE: 8 - Acquisition Milestone A (ACAT)

LEAD ORGANIZATION: Milestone Decision Authority

SUPPORT ORGANIZATIONS: Applicable DASN/PEO/Program Manager

GOAL/DESCRIPTION

Execute an Acquisition Program Milestone Decision for an ACAT Program considered under the Entitled Process as an SCD.

SUB TASKS

RESPONSIBILITY

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <ul style="list-style-type: none">○ An SCD meeting the requirements of DOD 5000/SECNAV Instruction 5000.2B for designation as an ACAT Program will be managed in accordance with Applicable Acquisition Program Regulations and Instructions. | <ul style="list-style-type: none">○ Program Manager |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

INPUT

- Statutory and regulatory documentation for ACAT programs in accordance with DOD 5000/SECNAV 5000 Series Instructions as required by the Milestone Decision Authority (MDA).
- Decision Point 1 recommendation for the SCD from the Entitled Process.
- Resource Sponsor full funding commitment for Technology Development.

OUTPUT (DELIVERABLES)

- MDA Acquisition Decision Memorandum and approval to enter Technology Development Phase of an Acquisition program documented in NDE and attached to the SCD through CYBERDOCS.

METRICS

BUSINESS RULES (CRITERIA)

- If a program is identified and designated as an ACAT program in accordance with DOD 5000/SECNAV Instruction 5000.2B, the cognizant program manager will engage designated milestone authority for an acquisition milestone decision.

NOTES/QUESTIONS

- Identify MDA format for inclusion in NDE.

TASK TITLE: 9 – Develop System Performance Specs

LEAD ORGANIZATION: PARM/TYCOM

SUPPORT ORGANIZATIONS: SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Perform Preliminary engineering to develop system/equipment specifications.

SUB TASKS

RESPONSIBILITY

BLOCK 1 - 3

- Perform preliminary engineering.
- Develop sketches and calculations as appropriate.
- Complete the appropriate fields in the ship change document.

- PARM/TYCOM

INPUT

- Approved SCD Phase I
- SCD Phase II form

OUTPUT (DELIVERABLES)

- Draft SCD Phase II
- Sketches and calculations as appropriate

METRICS

- Time to complete preliminary engineering measured from Decision Point 1 to beginning of technical assessment process Phase II.

BUSINESS RULES (CRITERIA)

- Submitter/PARM/TYCOM receives approval of Ship Change Document (SCD) Phase I and notification to complete SCD Phase II form.
- PARM/TYCOM will utilize internal processes to complete preliminary engineering and provide a draft SCD Phase II to the Change Manager.

TASK TITLE: Block 9(a) – Develop System Performance Specs

LEAD ORGANIZATION: Sponsoring Activity

SUPPORT ORGANIZATIONS: PARM's, SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Complete engineering, design and development of system/equipment specifications.

SUB TASKS

RESPONSIBILITY

BLOCK 1 - 3

- Complete the appropriate fields in the Phase II ship change document.
- Develop sketches and calculations as appropriate

- Sponsoring Activity

- Develop supporting documentation as required. (TDP, ICD, Topside/EMI/RCS studies, etc)

- Sponsoring Activity

- Develop equipment specification

- Sponsoring Activity

- Develop class/system integration requirements

- Sponsoring Activity

- Determine class unique characteristics

- Sponsoring Activity

- Determine Flight unique characteristics

- Sponsoring Activity

- Complete SCD Phase III

- Sponsoring Activity

INPUT

- Approved SCD Phase I
- SCD Phase II (a) Form [Tailored form that combines necessary elements of Phase II and III SCD]

OUTPUT (DELIVERABLES)

- Draft SCD Phase II (a) and supporting documentation as required

METRICS

- Time from approval of Phase I SCD to completion of draft Phase II (a) SCD.

BUSINESS RULES (CRITERIA)

- Submitter/Sponsoring activity receives approved Ship Change Document (SCD) Phase I and Phase II (a) SCD (tailored combined Phase II and Phase III SCD).
- Sponsoring activity will utilize internal processes to complete engineering & design development and provide a draft SCD Phase II and Phase III to the TAT.
- Sponsoring Activity shall provide required supporting documentation (i.e., ICD, etc.) to be used for development of Draft Phase III SCD.
- POA&M is required for equipment development

TASK TITLE: 10 – POM (YY) Input to Modernization Plan

LEAD ORGANIZATION: OPNAV Resource Sponsors (N43/N6/N7)

SUPPORT ORGANIZATIONS: ISEA, SYSCOM, SPM, NAVSEA 017

GOAL/DESCRIPTION

Input “Modernization Plan” with rough order of magnitude budget estimates for total cost of modernization alterations, as determined during Phase I Cost Benefit Analysis. This will be the cost estimate for ship classes.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Use initial CBA Cost Estimate to identify total cost of each alteration on a per hull basis○ Provide PARM Fielding Plans to identify alteration installations across ship classes	<ul style="list-style-type: none">○ Independent Cost Assessment Team (SMEs) led by NAVSEA 017○ PARM

INPUT

- Funding Decision Board “Approval” Decision
- PARM Fielding Plans
- ACAT Milestone “A” Data (if applicable)

OUTPUT (DELIVERABLES)

-

METRICS

- Refer to CFT4 Entitled Metrics Team

BUSINESS RULES (CRITERIA)

- Budget estimate must be within +/- 40%.
- Total costs for all alterations must be identified in the Modernization Plan

NOTES/QUESTIONS

- We want to capture the “tolerance range” for estimates to go into a historical file to help determine how “valid” our estimates are (for historical metrics, program management purposes and in order to improve our estimates for “repeat” alts or similar installations).

TASK TITLE: 11 – Update Technical Assessment

LEAD ORGANIZATION: Ship Program Manager (SPM) – (PEO Ships FT & PEO Carriers TD)

SUPPORT ORGANIZATIONS: PARM's, SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Review preliminary system/equipment specifications and provide recommendations to the SPM that do not include any subjective opinion of merit. All candidates for change shall receive fair, unbiased assessments by 'Entitled' Technical Assessment Team (TAT).

SUB TASKS

RESPONSIBILITY

BLOCK 4

- | | |
|----------------------------------|------------------|
| ○ Assign TAT Lead. | ○ Change Manager |
| ○ Distribute change to TAT Lead. | |
| ○ Assign due date for review. | |

BLOCK 5

- | | |
|--------------------------------------------------------------------------------------|------------|
| ○ Assess the description, feasibility and impacts of proposed change. | ○ TAT Lead |
| ○ Communicate with originator to resolve issues if necessary. | |
| ○ Identify conjunctive changes and existing changes that may be superceded/impacted. | |
| ○ Review and provide assessment to Change Manager. | |
| ○ Determine supporting documentation required. | |

BLOCK 6

- | | |
|---------------------------------------------------------|------------------|
| ○ Review/resolve issues. | ○ Change Manager |
| ○ Schedule change for Configuration Change Board (CCB). | |

BLOCK 7

- | | |
|------------------------------------------|----------------|
| ○ Conduct CCB. | ○ CCB Chairman |
| ○ Determine and document recommendation. | |
| ○ Forward recommendation to SPM. | |

BLOCK 8

- | | |
|--------------------------------------------------------------------|-------|
| ○ Returns draft SCD Phase II to TAT Lead for resolution of issues. | ○ SPM |
| ○ Forwards recommendation to AFOM/CBA. | |

INPUT

- Supporting documentation as required.
- Draft SCD Phase II.

OUTPUT (DELIVERABLES)

- SPM reviewed SCD Phase II with recommendation

METRICS

- Time between subtasks
- How many changes get recommended/not recommended by CCB?
- How many changes does the SPM recommend for rework?

BUSINESS RULES (CRITERIA)

- Should the SPM require additional clarification, endorsement will not be forwarded prior to attempting issue resolution via TAT Lead.
- Unresolved issues will be noted in the Technical review comments and forwarded.
- Technical review will include the following information:
 - Prototype required
 - Conjunctive changes identified
 - Activity identified to develop Phase III SCD
 - Supporting documentation required
 - Superseded or redundant change
 - FORCENET compliant

TASK TITLE: 12 - Update AFOM calculation

LEAD ORGANIZATION: FFC (N43, N6, N8)

SUPPORT ORGANIZATIONS: CNAF/CNSF/RMC/ATG (N43, N6, N8)

GOAL/DESCRIPTION

UPDATE ALTERATION FIGURE OF MERIT (AFOM) AS REQUIRED BASED ON REVIEW OF SCD AND ENGINEERING/ACQUISITION DOCUMENTS (BLOCKS 12/13).

ACTIONS/EVENTS

RESPONSIBILITY

- | | |
|---------------------------------------------------------|-------------------|
| • Retrieve and review modifications to SCD | • TYCOM |
| • Retrieve and review engineering/acquisition documents | • TYCOM |
| • Determine if a change is required. | • TYCOM |
| • Ensure CFC mapped to applicable Naval Capability | • TYCOM/NDE |
| • CFCs routed to cognizant TYCOMs | • FLEET PANEL/NDE |
| • Canvases appropriate SMEs for input | • TYCOM |
| • Review SME inputs | • TYCOM |
| • Enter Indexed values into NDE | • TYCOM |
| • Cognizant TYCOM Inputs consolidated | • NDE |
| • Algorithm calculates Total AFOM and AFOMs by Pillar | • NDE |
| • AFOM scores entered into NDE | • SEA04L |

INPUT

- 3-Star and Fleet Weighting Boards weights from AFOM Benefit Structure (Annually)
 - AFOM Benefit Structure will mirror Naval Power 21 Pillar and Capability Package Structure
- CFC Attributes via Phase II SCD (see below)
- CFC Attributes via SCD (see below)
 - Attributes mapped via NDE into Naval Power 21 Structure
- Engineering/Acquisition documents

OUTPUT (DELIVERABLES)

- Updated AFOMs
 - Format is 0-100 (Identifier from SCD) e.g. : “35 (M)” with following default outputs on Recommended Change Package:
 - Overall AFOM
 - Capability AFOM
 - Suitability AFOM
 - Sea Base
 - Sea Strike
 - Sea Shield
 - ForceNet
 - Quality of Service/Quality of Life

DOCUMENTS/PROGRAMS (generated or modified during this step)

METRICS

-
- Turnaround on updating an AFOM (in terms of days from point of receipt).
 - Distribution of CFCs by AFOM criteria.
 - How many CFCs returned for additional information

BUSINESS RULES (CRITERIA)

Assumptions:

- CFC will have an assigned JTEDS Nomenclature (AN/XX) for C4I, MK/MOD for Weapons Systems, ESWBS for HM&E.
- Updated Index values will be assigned by the TYCOMs with solicited input from Fleet Panel.
 - This process will be manual entry by TYCOMs into NDE.
- Assumed throughput is 300 new CFCs a month with CFCs on schedule for the next Decision Board requiring an update.
 - TYCOMs will assign the index numbers after considerations of SME inputs.
- Minimum requirements in the Phase II SCD processes have sufficient information for AFOM reviews.
- All Phase I requirements
- CFCs are pushed from NDE interface to all TYCOMs after Phase II Tech Eval update.

Selectable Views in the Business Case will include a:

- CFCs sorted (Ranked) by AFOM
- CFCs sorted by equipment/system (system/equipment for which alt was designed)
- Scatter chart of AFOM vs CFC Reference Number
- Ranked AFOM with LOW AFOM line superimposed; the Decision Board members shall have the capability to view all CFCs that fall below the LOW AFOM line in a summary window
- Drill-down capability in the Business Case to show AFOM vs any attribute(s) in the AFOM Benefit Structure NP-21 Pillar, NCP, MCP

Identifiers Include:

- Statutory requirements will not change during Phase II.
- Naval Capabilitie(s) that the CFC will address from the NP-21 Structure; - Statutory: (S); Mandatory Safety (M); Conjunctive (C); Joint Interoperability (J); Force CDR Expedite (E), TMA/TMI (T), Regulatory (R).
- The (S), (M), (T), (E), (R) Identifiers will include mandatory pulldown windows in the SCD that require the entry of specific alpha-numeric reference numbers to ensure tracability of these attributes to the appropriate agency. PARMs and SPMs shall ensure that these reference numbers are available before entering data into the NDE-NM CFC Module.

TASK TITLE: 13 – Update Cost Benefit Analysis (C.B.A.)

LEAD ORGANIZATION: SPM/PEO/CFFC

SUPPORT ORGANIZATIONS: PARM, SYSCOM's/NAVSEA 017/ISEA/TYCOM

GOAL/DESCRIPTION

Perform updated Cost Benefit Analysis (CBA) of an alteration in the Detailed Design Phase in order to increase accuracy of the alteration total cost estimate in support of the Phase II Decision Board “approval/disapproval decision.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Update SCD with Cost Data and Backup Documentation○ Update Cost Metrics in CR&EI Template○ Analyze CBA Cost Data○ (Virtually) Assemble Business Case Package○ Perform Business Case Package Validation○ Provided Business Case Package to Decision Board○ Make “Approval/Disapproval Decision○ Send “Disapproved” Packages to N.D.E. History File	<ul style="list-style-type: none">○ PARM/SPM○ Independent Cost Assessment Team (SMEs) led by SEA 017○ Independent Cost Assessment Team (SMEs) led by NAVSEA 017○ NAVSEA 04○ NAVSEA 04○ NAVSEA 04○ Decision Board○ NAVSEA 04

INPUT

- Alteration Packages that have undergone 2nd Technical Assessment (TA).

OUTPUT (DELIVERABLES)

- “Complete” CBA Alteration Packages go forward to Block 16 with recommendation for approval or disapproval. “Disapproved” Alteration Packages go to “History File” in N.D.E. Database. New Cost Estimate Data updates “Modernization Plan”.

METRICS

- First Pass Yield (Ratio of “Recommended” vs “Not Recommended” Alteration Packages at Block 23
- First Pass Yield “Cycle Time” to second decision point (Block 13 to Block 23)

BUSINESS RULES (CRITERIA)

- Entrance into Phase II: Upcheck from Block 11 (2nd Technical Assessment)
- Exit into Phase III (Design Development): If “Dis-approval” Decision @ Block 23 pass to Block 24 (Rework) or Kill (Pass to History File). If “Approval” Decision @ Block 23 pass to Block 25 (for ACAT Alterations) or Block (27 (for Non-ACAT Alterations).
- Funding “Approval” Decision updates POM Input to Modernization Plan
- If cost estimate in this phase increases by a factor greater than 40% of the original cost estimate in Phase I, Decision Board re-evaluation of the alteration must be sought in order to provide increase in required funding

NOTES/QUESTIONS

- Risk Factors +/- 25% confidence level for developmental items. Greater confidence for repeat changes, ACAT milestone “A”, COTS solutions and Technology turnover with respect to spiral development.
- Support AFOM request for benefit/impact review of manpower/workload reduction, weight/stability and conduct of inclining experiments
- Ship Change Document (SCD) Input into NDE.
- CR&EI Template (populated from SCD)
- NDE Cost Data Fields (populated from CR&EI Template)
- Basis of Cost Estimates Documented in NDE
- Ship Class Applicability
- Description of alteration benefit as compared to current capability or alternative
- ROI
- NPV
- Pay-Back Period
- Life Cycle Cost

TASK TITLE: 14 - Phase 2 Ship Change Document (SCD)

LEAD ORGANIZATION: Ship Program Manager

SUPPORT ORGANIZATIONS: SYSCOMS, TYCOMS, OPNAV

GOAL/DESCRIPTION

Finalize SCD for submittal to O6 Review Board.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Compile results from SCD based on preliminary engineering results:<ul style="list-style-type: none">• TECH Assessment• AFOM Assignment• Cost Data○ Provide summaries of differences between Decision Point 1 and current information provided on SCD for each functional area identified above.○ Pass to queue for DP2	<p>SPM Technical Team</p> <p>AFOM Team</p> <p>SPM/SEA 017 Cost Analysis Team</p> <p>Submitter</p> <p>NDE</p>

INPUT

- Updated SCD from preliminary engineering completion
- Summary of the differences from TECH, AFOM and CBA Assessments.

OUTPUT (DELIVERABLES)

- SCD completed with SPM recommendation for SCD to proceed within entitlement process for design development.
- SCD with O6 Review Board recommendation if higher authority concurrence is required.

METRICS

- NA

BUSINESS RULES (CRITERIA)

- Submitter will coordinate as required with SPMs, PARMS, TYCOMS, and OPNAV resource sponsors to ensure adequacy and accuracy of the SCD
- When Tech Eval, AFOM and CBA updates are completed, NDE will process SCD and put it in queue for Decision Point 2.
- SCDs submitted as expedite will be processed not to exceed 7 working days
- Non-expedited SCDs will be processed not to exceed 20 working days

NOTES/QUESTIONS

TASK TITLE: 15 - Decision Point 2 (Authorize Fund Design Development)

LEAD ORGANIZATION: TYCOM for Fleet Alteration
SYSCOM for Program Alteration
OPNAV N6, N7

SUPPORT ORGANIZATIONS: O-6, 1-2 Star, and 3 Star Boards(See list of decision stakeholders)

GOAL/DESCRIPTION

Block 15 is a process to verify and update the Modernization Plan (MP), recommend/authorize the expenditure of funds for the continuation of the entitled process for Fleet modernization (design development), and review, recommend and authorize changes in design development funding requirements. The combination of updated inputs from previous steps (CBA, AFOM, Technical Evaluation, etc.) shall be used by the stakeholders to vote on recommended SCDs. Process will support expedited SCDs to meet Fleet requirements.

SUB TASKS	RESPONSIBILITY
<p>O-6 Review Board</p> <ul style="list-style-type: none"> ○ Shall meet continuously on a virtual basis and consider all SCDs ○ Continue development or recommend kill O-6 level SCDs <ul style="list-style-type: none"> ○ All recommended kills go to next level ○ SCD changes may include funding, schedule, performance, or other risk mitigations ○ Send back SCDs to submitter for rework ○ Recommend that 1-2 Star and 3 Star level SCDs be continued or killed ○ Review SCDs with funding differences necessitated by preliminary engineering findings, and concur with recommended changes (i.e., offsets) or send back to submitter for rework ○ Expedited SCDs will require the additional tasks: <ul style="list-style-type: none"> ○ Confirm expedited status still valid ○ O-6 Board shall review, comment, and recommend on the criteria of SCD expedition ○ Make a recommendation on MP impact by continuing to expedite SCD (recommend based on funding requirements to higher authority?) <p>1-2 Star Review Board</p> <ul style="list-style-type: none"> ○ SCDs shall be batched and presented to the 1-2 Star for consideration on a periodic basis. Recommend quarterly. ○ Shall meet continuously on a virtual basis and consider expedited SCDs ○ Endorse/override O-6 level SCD decisions ○ Kill 1-2 Star level SCDs ○ Continue development of 1-2 Star level SCDs, including ACAT III ○ Make recommendations for 3 Star level SCDs to be killed or continued ○ Send back to submitter for rework ○ Expedited SCDs will require the additional tasks: <ul style="list-style-type: none"> ○ Confirm expedited status still valid 	<ul style="list-style-type: none"> ○ Board Members

<ul style="list-style-type: none"> ○ 1-2 Star Board shall review, comment, and recommend on the criteria of SCD expedition ○ Make a recommendation on MP impact by continuing to expedite SCD (recommend based on funding requirements to higher authority?) <p>3 Star Review Board</p> <ul style="list-style-type: none"> ○ SCDs shall be batched and presented to the 3 Star for consideration on a periodic basis TBD ○ Shall meet continuously on a virtual basis and consider expedited SCDs ○ Endorse/override O-6 and 1-2 Star level SCD decisions ○ Kill 3 Star level SCDs ○ Continue development of 3 Star level SCDs, including ACAT 1 and 2 ○ Send back to submitter for rework ○ Expedited SCDs will require the additional tasks: <ul style="list-style-type: none"> ○ Confirm expedited status still valid ○ 3 Star Board shall review, comment, and recommend on the criteria of SCD expedition ○ Approve changes on MP impact by continuing to expedite SCD ○ Recommend Modernization Plan (annual) to CNO 	
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INPUT

- Ship Change Document complete including all minimum required data such as:
 - Updated AFOM
 - Updated CBA
 - Updated Tech Eval
- ACAT definitions per SECNAV instruction
- PARM, SPM, RS need to determine impact to existing MP (Gaming) for expedited SCDs (provide recommended offsets)

OUTPUT (DELIVERABLES)

O-6 Review Board

- Continue development of all approved O-6 level SCDs in the MP
- Recommendations for 1-2 Star and 3 Star level SCDs
- Killed O-6 level (non-expedited) SCDs
- SCDs to be clarified or reworked
- Concur/recommend development plan
- For expedited SCDs, shall concur with the requirement to continue to expedite, recommend to no longer expedite, or recommend kill
- Reprogramming/offsets for changed expedited SCDs and notification of budgetary impacts to all concerned

1-2 Star Review Board

- Endorse/override continuation of development of all approved O-6 level SCDs in the MP
- Continue development of all 1-2 Star level SCDs in the MP
- Recommendations for 3 Star level SCDs
- Killed 1-2 Star level (non-expedited) SCDs
- SCDs to be clarified or reworked
- Concur/recommend development plan
- For expedited SCDs, shall approve/concur with the requirement to continue to expedite,

- recommend to no longer expedite, or recommend kill
- Reprogramming/offsets for changed expedited SCDs and notification of budgetary impacts to all concerned

3 Star Review Board

- Endorse/override continuation of development of all approved O-6 and 1-2 Star level SCDs in the MP
- Continue development of all 3 Star level SCDs in the MP
- Killed 3 Star level SCDs
- SCDs to be clarified or reworked
- Approve development plan
- For expedited SCDs, shall approve the requirement to continue to expedite, approve to no longer expedite, or kill
- Reprogramming/offsets for changed expedited SCDs and notification of budgetary impacts to all concerned
- Approved Modernization Plan (annual)

METRICS

-

BUSINESS RULES (CRITERIA)

- **O-6 Review Board**
 - Considers (approve, kill, send back for rework) all SCDs submitted to the entitled process.
 - If a SCD meets certain ACAT threshold O-6 group shall continue development or kill.
 - If a SCD is above O-6 threshold, shall review, comment and recommend to kill or continue development.
 - For SCDs with insufficient funding (due to cost growth or underestimating) and without adequate offsets identified, a recommendation for disposition shall be formulated and submitted to the 1-2 Star for approval.
 - For expedited SCDs, shall concur with the requirement to expedite or recommend that the expedite flag be removed from SCD.
 - Shall concur with the recommended offsets SCDs or return to submitter for rework.
- **1-2 Star Review Board**
 - Endorse/override all recommendations for O-6 level SCDs.
 - If a SCD meets certain ACAT threshold 1-2 Star group shall continue development or kill.
 - If a SCD is above 1-2 Star threshold, shall review, comment and recommend to kill or continue development.
 - For SCDs with insufficient funding (due to cost growth or underestimating) and without adequate offsets identified, a recommendation for disposition shall be formulated and submitted to the 3 Star for approval.
 - For expedited SCDs, shall concur with the recommendation from O-6 Board.
 - All deflagged SCDs will continue through the process as non-expedited SCDs.
 - Shall concur with the recommended offsets SCDs or return to submitter for rework.
- **3 Star Review Board**
 - Endorse/override all recommendations for O-6 and 1-2 Star level SCDs.
 - If a SCD meets certain ACAT threshold 3 Star group shall continue development or kill.

- For SCDs with insufficient funding (due to cost growth or underestimating) and without adequate offsets identified, the disposition recommendations from the O-6 and 1-2 Star levels shall be approved or disapproved.
- Shall submit an annual Modernization Plan.
- For expedited SCDs, shall approve recommendations from 1-2 Star Board.
- Shall concur with the recommended offsets SCDs or return to submitter for rework.
- All ACAT 1 and 2 programs and non-ACAT SCDs exceeding \$xxx will be reviewed at 3 Star level.
- All ACAT 3 and 4 programs and non-ACAT SCDs exceeding \$xxx will be reviewed at 1-2 Star level.
- All other SCDs will be reviewed at O-6 level.
- Any SCD submitted for rework shall be returned to submitter.
-
- Any SCD returned for rework shall be resubmitted or recommended for termination with appropriate justification.
- Submitter shall be notified if their SCD is killed.
- Submitter shall be notified if their SCD has been authorized for design development.
- All SCD (active or inactive) data shall be maintained in NDE-NM (system level Business Rule).
- If the SCD is killed, no further resources shall be applied.
- Any expedited SCD provided for consideration shall include funding offsets required for the execution of the total program including CY and/or CY+1 requirements. Funding offsets identified shall have concurrence from applicable Resource Sponsors and PMs/PEOs. This would include the Fleet option of funding from Fleet maintenance funds.

NOTES/QUESTIONS

- For ACAT programs determined should be killed, the PM and MDA will be notified of the recommended termination NLT 3 working days of the decision.

TASK TITLE: 16 - Rework

LEAD ORGANIZATION: PARM

SUPPORT ORGANIZATIONS: Submitter, Committees

GOAL/DESCRIPTION

To provide additional, revised or missing SCD data to support continuation of the Entitled Process for the SCD.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ <u>Identify missing or incorrect SCD data.</u>○ <u>Correct/provide requested SCD data.</u>	<ul style="list-style-type: none">○ <u>O-6, 1-2 Star and 3 Star Review Boards</u>○ <u>Submitter</u>

INPUT

- Required unclear, missing/incorrect data from Review Boards.

OUTPUT (DELIVERABLES)

- Revised SCD for resubmission.

METRICS

- FPY

BUSINESS RULES (CRITERIA)

- Rework is defined requirements that do not change the scope of work (10% rule) and/or the intent of the SCD.
- Request for rework will be sent back to the submitter for additional data and/or clarification.
- Submitter may elect not to resubmit a revised SCD, but shall provide to the appropriate Review Board a justification for the non-resubmission.
- Initial response with a POAM (time and costs) shall be provided by the submitter within 30 days of receipt deficiency.
- Submitter shall provide a revised SCD to Entitled Process for reconsideration at the appropriate Decision Point.
- Tech Eval, AFOM and CBA will be updated with the revised SCD information as required.

NOTES/QUESTIONS

TASK TITLE: 17 - Acquisition Milestone B (ACAT)

LEAD ORGANIZATION: Milestone Decision Authority

SUPPORT ORGANIZATIONS: Applicable DASN/PEO/Program Manager

GOAL/DESCRIPTION

Execute an Acquisition Program Milestone Decision for an ACAT Program considered under the Entitled Process as an SCD.

SUB TASKS

RESPONSIBILITY

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <ul style="list-style-type: none">○ An SCD meeting the requirements of DOD 5000/SECNAV Instruction 5000.2B for designation as an ACAT Program will be managed in accordance with Applicable Acquisition Program Regulations and Instructions. | <ul style="list-style-type: none">○ Program Manager |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

INPUT

- Statutory and regulatory documentation for ACAT programs in accordance with DOD 5000/SECNAV 5000 Series Instructions as required by the Milestone Decision Authority (MDA).
- Decision Point 2 recommendation for the SCD from the Entitled Process.
- Resource Sponsor full funding commitment for System Development and Demonstration.

OUTPUT (DELIVERABLES)

- MDA Acquisition Decision Memorandum and approval to enter System Development and Demonstration Phase of an Acquisition program documented in NDE and attached to the SCD through CYBERDOCS.

METRICS

BUSINESS RULES (CRITERIA)

- If a program is identified and designated as an ACAT program in accordance with DOD 5000/SECNAV Instruction 5000 2B, the cognizant program manager will engage designated milestone authority for an acquisition milestone decision.

NOTES/QUESTIONS

- Identify MDA format for inclusion in NDE.

TASK TITLE: 18 – POM (YY) Input to Modernization Plan

LEAD ORGANIZATION: OPNAV Resource Sponsors (N43/N6/N7)

SUPPORT ORGANIZATIONS: ISEA, SYSCOM, SPM, NAVSEA 017

GOAL/DESCRIPTION

Update “Modernization Plan” with greater fidelity budget estimates for total cost of modernization alterations, as determined during Phase II Cost Benefit Analysis. This will be the cost estimate as part of the ship phasing plan throughout the FYDP.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Use updated CBA Cost Estimate to identify total cost of each alteration as part of ship phasing plan○ Update PARM Fielding Plans to identify alteration installations across ship classes throughout the FYDP	<ul style="list-style-type: none">○ Independent Cost Assessment Team (SMEs) led by NAVSEA 017○ PARM

INPUT

- Funding Decision Board “Approval” Decision
- PARM Fielding Plans
- ACAT Milestone “B” Data (if applicable)

OUTPUT (DELIVERABLES)

-

METRICS

- Refer to CFT 4 Entitled Metrics Team

BUSINESS RULES (CRITERIA)

- Budget estimate must be within +/- 25%.
- Total costs for all alterations must be identified in the Modernization Plan

NOTES/QUESTIONS

- We want to capture the “tolerance range” for estimates to go into a historical file to help determine how “valid” our estimates are (for historical metrics, program management purposes and in order to improve our estimates for “repeat” alts or similar installations).

TASK TITLE: 19 – Design Development

LEAD ORGANIZATION: PARM/TYCOM

SUPPORT ORGANIZATIONS: SYSCOM’s, PEO’s, ISEA’s, PY

GOAL/DESCRIPTION

Complete engineering to produce design specifications.

SUB TASKS	RESPONSIBILITY
BLOCK 1 - 3 (Accomplish the following as required) <ul style="list-style-type: none"> ○ Develop supporting documentation ○ Develop equipment specification. ○ Develop class/system integration requirements. ○ Determine class unique characteristics. ○ Determine Flight unique characteristics. ○ POA&M is required for equipment development Complete SCD Phase III.	<ul style="list-style-type: none"> ○ PARM/TYCOM/SPM

INPUT

- Approved SCD phase II

OUTPUT (DELIVERABLES)

- Draft SCD Phase III and supporting documentation as required

METRICS

- Time from approval of Phase II SCD until receipt of Draft Phase III SCD.

BUSINESS RULES (CRITERIA)

- PARM/TYCOM may utilize internal process to complete engineering and design development and provide a draft SCD PIII to the SPM Change Manager.
- The SPM will task the PY to develop Draft Phase III SCD as required.

TASK TITLE: 19(a) – Develop System Performance Specs

LEAD ORGANIZATION: PARM/TYCOM

SUPPORT ORGANIZATIONS: PARM's, SYSCOM's, PEO's, ISEA's, Planning Yard

GOAL/DESCRIPTION

Complete engineering, design and development of system/equipment specifications.

SUB TASKS	RESPONSIBILITY
BLOCK 1 – 3 (provide following as required) <ul style="list-style-type: none"> ○ Develop supporting documentation. (TDP, ICD, Topside/EMI/RCS studies, etc) ○ Develop equipment specification. ○ Develop class/system integration requirements. ○ Determine applicable ship/class/site unique characteristics. ○ Complete SCD. 	<ul style="list-style-type: none"> ○ PARM/TYCOM

INPUT

- Approved SCD Phase I

OUTPUT (DELIVERABLES)

- Draft SCD Phase II (a) and supporting documentation as required

METRICS

- Time from approval of Phase I SCD to completion of draft Phase II (a) SCD.

BUSINESS RULES (CRITERIA)

- Submitter/PAARM/TYCOM receives approved Ship Change Document (SCD) Phase I.
- PARM/TYCOM will utilize internal processes to complete engineering & design development and provide a draft SCD Phase II (a)
- Provide POA&M for equipment development as required.
- For Temporary Alterations a TEMPALT Data Package, including a POA&M, is required.

TASK TITLE:

20 – Update Technical Assessment

LEAD ORGANIZATION:

Ship Program Manager (SPM) – (PEO Ships FT & PEO Carriers TD)

SUPPORT ORGANIZATIONS:

PARM's, SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Review draft Phase III SCD and provide recommendations to the SPM that do not include any subjective opinion of merit. All candidates for change shall receive fair, unbiased assessments by 'Entitled' Technical Assessment Team (TAT).

SUB TASKS	RESPONSIBILITY
BLOCK 4 <ul style="list-style-type: none"> Receives Draft Phase III SCD and supporting documentation. 	<ul style="list-style-type: none"> Change Manager
BLOCK 5 <ul style="list-style-type: none"> Draft Phase III SCD forwarded to Planning Yard as required. 	<ul style="list-style-type: none"> Change Manager
BLOCK 6 <ul style="list-style-type: none"> Planning Yard reviews/completes draft SCD Phase III as necessary. 	<ul style="list-style-type: none"> Planning Yard
BLOCK 7 <ul style="list-style-type: none"> Assign TAT Lead. Distribute change to TAT Lead. Assign due date for review. 	<ul style="list-style-type: none"> Change Manager
BLOCK 8 <ul style="list-style-type: none"> Assess the description and impacts of proposed change. Communicate with originator to resolve issues if necessary. Identify conjunctive changes and existing changes that may be superseded/impacted. Review and provide assessment to Change Manager. Determine supporting documentation required. 	<ul style="list-style-type: none"> TAT Lead
BLOCK 9 <ul style="list-style-type: none"> Review/resolve issues. Schedule change for Configuration Change Board (CCB). 	<ul style="list-style-type: none"> Change Manager

BLOCK 10 <ul style="list-style-type: none"> ○ Conduct CCB. ○ Determine and document recommendation. ○ Forward recommendation to SPM. 	<ul style="list-style-type: none"> ○ CCB Chairman
BLOCK 11 <ul style="list-style-type: none"> ○ Returns draft SCD Phase III to TAT Lead for resolution of issues. ○ Forwards recommendation to AFOM/CBA. 	<ul style="list-style-type: none"> ○ SPM

INPUT

- Draft SCD PIII and supporting documentation

OUTPUT (DELIVERABLES)

- SPM endorsed SCD PIII

METRICS

- How many changes get recommended/not recommended by SPM?
- How many changes does the SPM return for clarification?
- Time between subtasks?

BUSINESS RULES (CRITERIA)

- SPM will task PY to develop Draft PIII from supporting documentation if required.
- Should the SPM require additional clarification, endorsement will not be forwarded prior to attempting issue resolution via TAT Lead.
- Unresolved issues will be noted in the Technical review comments and forwarded.
- Technical review will include updated information from Phase II.

TASK TITLE: 20 (a) – Update Technical Evaluation

LEAD ORGANIZATION: Ship Program Manager (SPM) – (PEO Ships FT & PEO Carriers TD)

SUPPORT ORGANIZATIONS: PARM's, SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Review preliminary specifications and provide recommendations to the SPM that do not include any subjective opinion of merit. All candidates for change shall receive fair, unbiased assessments by 'Entitled' Technical Assessment Team (TAT).

SUB TASKS	RESPONSIBILITY
BLOCK 4 <ul style="list-style-type: none"> ○ Change Manager receives Draft Phase II(a) SCD and supporting documentation (if required) and coordinates review. ○ Determine Cognizant Authorities and Technical Warrant Holder as necessary. ○ Distribute change to Cognizant Authority and Technical Warrant Holder. ○ Assign due date for reviews. 	<ul style="list-style-type: none"> ○ Change Manager
BLOCK 5 <ul style="list-style-type: none"> ○ Assess the description, feasibility and impacts of proposed change. ○ Communicate with originator to resolve issues if necessary. ○ Identify conjunctive changes and existing changes that may be superseded or impacted. ○ Determine additional supporting documentation, as required. (Technical Data Package, ICD, Topside/EMI/RCS studies, etc) ○ Review and assess change. ○ Provide assessment to PEO Carrier/Ships Change Manager. 	<ul style="list-style-type: none"> ○ TAT Lead
BLOCK 6 <ul style="list-style-type: none"> ○ Reviews/resolves issues as required ○ Schedule change for Configuration Change Board. (CCB) 	<ul style="list-style-type: none"> ○ Change Manager
BLOCK 7 <ul style="list-style-type: none"> ○ Conduct CCB. ○ Determine and document recommendation. ○ Forward recommendation to SPM. 	<ul style="list-style-type: none"> ○ Change Manager/CCB Chairman

BLOCK 8 & 9 <ul style="list-style-type: none"> ○ SPM forwards recommendation to AFOM/CBA. ○ SPM returns draft SCD Phase II (a) to PARM/TYCOM for re-work. 	<ul style="list-style-type: none"> ○ SPM
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INPUT

- Draft SCD Phase II (a)
- Supporting documentation as required

OUTPUT (DELIVERABLES)

- Completed Technical Section of SCD Phase II (a)

METRICS

- Time between subtasks
- How many changes get recommended/not recommended by CCB?
- How many changes does the SPM recommend for rework?

BUSINESS RULES (CRITERIA)

- Should the SPM require additional clarification, endorsement will not be forwarded prior to attempting issue resolution via TAT Lead.
- Unresolved issues will be noted in the Technical review comments and forwarded.
- Technical review will include the following information:
 - Prototype required
 - Conjunctive changes identified
 - Identify activity to develop Phase III SCD.
 - Supporting documentation required
 - Superseded or redundant change
 - FORCENET compliant

TASK TITLE: 21 - Update AFOM calculation

LEAD ORGANIZATION: FFC (N43, N6, N8)

SUPPORT ORGANIZATIONS: CNAF/CNSF/RMC/ATG (N43, N6, N8)

GOAL/DESCRIPTION

UPDATE ALTERATION FIGURE OF MERIT (AFOM) AS REQUIRED BASED ON REVIEW OF SCD AND ENGINEERING/ACQUISITION DOCUMENTS.

ACTIONS/EVENTS

- Retrieve and review modifications to SCD
- Retrieve and review engineering/acquisition documents
- Determine if a change is required.
- Ensure CFC mapped to applicable Naval Capability
- CFCs routed to cognizant TYCOMs
- Canvases appropriate SMEs for input
- Review SME inputs
- Enter Indexed values into NDE
- Cognizant TYCOM Inputs consolidated
- Algorithm calculates Total AFOM and AFOMs by Pillar
- AFOM scores entered into NDE

RESPONSIBILITY

- TYCOM
- TYCOM
- TYCOM
- TYCOM/SEA04R
- FLEET PANEL/ SEA04R
- TYCOM
- TYCOM
- TYCOM
- SEA04R
- SEA04R
- SEA04R

INPUT

- 3-Star and Fleet Weighting Boards weights from AFOM Benefit Structure (Annually)
 - AFOM Benefit Structure will mirror Naval Power 21 Pillar and Capability Package Structure
- CFC Attributes via Phase II SCD (see below)
- CFC Attributes via SCD (see below)
 - Attributes mapped via NDE into Naval Power 21 Structure
- Engineering/Acquisition documents

OUTPUT (DELIVERABLES)

- Updated AFOMs
- Format is 0-100 (Identifier from SCD) e.g. : “35 (M)” with following default outputs on Recommended Change Package:
 - Overall AFOM
 - Capability AFOM
 - Suitability AFOM
 - Sea Base
 - Sea Strike
 - Sea Shield
 - ForceNet
 - Quality of Service/Quality of Life

DOCUMENTS/PROGRAMS (generated or modified during this step)

METRICS

-
- Turnaround on updating an AFOM (in terms of days from point of receipt).
 - Distribution of CFCs by AFOM criteria.
 - How many CFCs returned for additional information

BUSINESS RULES (CRITERIA)

Assumptions:

- CFC will have an assigned JTEDS Nomenclature (AN/XX) for C4I, MK/MOD for Weapons Systems, ESWBS for HM&E.
- Updated Index values will be assigned by the TYCOMs with solicited input from Fleet Panel.
- This process will be manual entry by TYCOMs into NDE.
- Assumed throughput is 300 new CFCs a month with CFCs on schedule for the next Decision Board requiring an update.
- TYCOMs will assign the index numbers after considerations of SME inputs.
- Minimum requirements in the Phase II SCD processes have sufficient information for AFOM reviews.
- All Phase I requirements
- CFCs are pushed from NDE/NTIRA interface to all TYCOMs after Phase II Tech Eval update.

Selectable Views in the Business Case will include a:

- CFCs sorted (Ranked) by AFOM
- CFCs sorted by equipment/system (system/equipment for which alt was designed)
- Scatter chart of AFOM vs CFC Reference Number
- Ranked AFOM with LOW AFOM line superimposed; the Decision Board members shall have the capability to view all CFCs that fall below the LOW AFOM line in a summary window
- Drill-down capability in the Business Case to show AFOM vs any attribute(s) in the AFOM Benefit Structure NP-21 Pillar, NCP and Capability Package

Identifiers Include:

- Statutory requirements will not change during Phase II.
- Naval Capabilities(s) that the CFC will address from the NP-21 Structure; - Statutory: (S); Mandatory Safety (M); Conjunctive (C); Joint Interoperability (J); Force CDR Expedite (E), TMA/TMI (T).
- The (S), (M), (T), (E) Identifiers will include mandatory pulldown windows in the SCD that require the entry of specific alpha-numeric reference numbers to ensure tracability of these attributes to the appropriate agency. PARMs and SPMs shall ensure that these reference numbers are available before entering data into the NDE-NM CFC Module.

NOTES/QUESTIONS

- The AFOM Naval Power 21 AFOM Benefit Structure will reside in NDE. Expert Choice software will be used offline of NDE to conduct the annual weighting of the Benefit Structure via the 3-Star Board Process noted in the Level III Process maps as well as updating the rating scales and weights as deemed necessary/required by the TYCOMs.
 - Naval Capabilities are provided as pull down menu on SCD.
 - TYCOM includes: CNSF/CNAF/NETWARCOM
 - To Voting Team: If a CFC is disapproved the JTEDS Nomenclature (AN/XX) for C4I, MK/MOD for Weapons Systems, ESWBS for HM&E must be cancelled.
-

TASK TITLE: 22 – Update Cost Benefit Analysis (C.B.A.)

LEAD ORGANIZATION: SPM/PEO/CFFC

SUPPORT ORGANIZATIONS: PARM, SYSCOM's/NAVSEA 017/ISEA/TYCOM

GOAL/DESCRIPTION

Perform updated Cost Benefit Analysis (CBA) of an alteration in the Detailed Design Phase in order to increase accuracy of the alteration total cost estimate in support of the Phase II Decision Board "approval/disapproval decision.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Update SCD with Cost Data and Backup Documentation○ Update Cost Metrics in CR&EI Template○ Analyze CBA Cost Data○ (Virtually) Assemble Business Case Package○ Perform Business Case Package Validation○ Provided Business Case Package to Decision Board○ Make "Approval/Disapproval Decision○ Send "Disapproved" Packages to N.D.E. History File	<ul style="list-style-type: none">○ PARM/SPM○ Independent Cost Assessment Team (SMEs) led by SEA 017○ Independent Cost Assessment Team (SMEs) led by NAVSEA 017○ NAVSEA 04○ NAVSEA 04○ NAVSEA 04○ Decision Board○ NAVSEA 04

INPUT

- Alteration Packages that have undergone 2nd Technical Assessment (TA).

OUTPUT (DELIVERABLES)

- "Complete" CBA Alteration Packages go forward to Block 16 with recommendation for approval or disapproval. "Disapproved" Alteration Packages go to "History File" in N.D.E. Database. New Cost Estimate Data updates "Modernization Plan".

METRICS

- First Pass Yield (Ratio of "Recommended" vs "Not Recommended" Alteration Packages at Block 23
- First Pass Yield "Cycle Time" to second decision point (Block 13 to Block 23)

BUSINESS RULES (CRITERIA)

- Entrance into Phase II: Upcheck from Block 11 (2nd Technical Assessment)
- Exit into Phase III (Design Development): If "Dis-approval" Decision @ Block 23 pass to Block 24 (Rework) or Kill (Pass to History File). If "Approval" Decision @ Block 23 pass to Block 25 (for ACAT Alterations) or Block (27 (for Non-ACAT Alterations).
- Funding "Approval" Decision updates POM Input to Modernization Plan

- If cost estimate in this phase increases by a factor greater than 40% of the original cost estimate in Phase I, Decision Board re-evaluation of the alteration must be sought in order to provide increase in required funding

NOTES/QUESTIONS

- Risk Factors +/- 25% confidence level for developmental items. Greater confidence for repeat changes, ACAT milestone "A", COTS solutions and Technology turnover with respect to spiral development.
- Support AFOM request for benefit/impact review of manpower/workload reduction, weight/stability and conduct of inclining experiments
- Ship Change Document (SCD) Input into NDE.
- CR&EI Template (populated from SCD)
- NDE Cost Data Fields (populated from CR&EI Template)
- Basis of Cost Estimates Documented in NDE
- Ship Class Applicability
- Description of alteration benefit as compared to current capability or alternative
- ROI
- NPV
- Pay-Back Period
- Life Cycle Cost

TASK TITLE: 23 - Recommended Change Package (RCP)

LEAD ORGANIZATION: Ship Program Manager

SUPPORT ORGANIZATIONS: SYSCOMS, TYCOMS, OPNAV

GOAL/DESCRIPTION

Finalize SCD for submittal to O6 Review Board.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Compile results from SCD design development phase and review for:<ul style="list-style-type: none">• TECH Assessment• AFOM Assignment• Cost Data○ Conduct comprehensive review of all information (preliminary engineering and design development) and identify any changes within the functional areas above or collectively to determine if the SCD should remain in the entitlement process.	<p>SPM Technical Team</p> <p>SPM/SEA 017 Cost Analysis Team</p> <p>SPM</p>

INPUT

- SCD

OUTPUT (DELIVERABLES)

- SCD completed with SPM recommendation for alteration to proceed within the entitlement process for procurement and installation.

METRICS

- NA

BUSINESS RULES (CRITERIA)

- SPM will coordinate as required with PARMS, TYCOMS, and OPNAV resource sponsors to ensure adequacy and accuracy of the SCD
- SCDs submitted as expedite will be processed by the SPM not to exceed 7 working days
- Non-expedited SCDs will be processed by the SPM not to exceed 20 working days

NOTES/QUESTIONS

TASK TITLE: 24 - Decision Point 3 (Authorize Fund Procurement and Installation)

LEAD ORGANIZATION: TYCOM for Fleet Alteration
SYSCOM for Program Alteration
OPNAV N6, N7

SUPPORT ORGANIZATIONS: O-6, 1-2 Star, and 3 Star Boards (See list of decision stakeholders)

GOAL/DESCRIPTION

Block 24 is a process to verify and update the Modernization Plan (MP), recommend the expenditure of funds for the continuation of the entitled process for Fleet modernization (procurement and installation), and review, recommend and authorize changes in procurement and installation funding requirements. The combination of updated inputs from previous steps (CBA, AFOM, Technical Evaluation, etc.) shall be used by the stakeholders to vote on recommended SCDs. Process will support expedited SCDs to meet Fleet requirements.

SUB TASKS	RESPONSIBILITY
<p>O-6 Review Board</p> <ul style="list-style-type: none">○ Shall meet continuously on a virtual basis and consider all SCDs○ Continue development or recommend kill O-6 level SCDs<ul style="list-style-type: none">• All recommended kills go to next level• SCD changes may include funding, schedule, performance, or other risk mitigations○ Send back SCDs to submitter for rework○ Recommend that 1-2 Star and 3 Star level SCDs be continued or killed○ Review SCDs with funding differences necessitated by preliminary engineering findings, and concur with recommended changes (i.e., offsets) or send back to submitter for rework○ Expedited SCDs will require the additional tasks:<ul style="list-style-type: none">• Confirm expedited status still valid• O-6 Board shall review, comment, and recommend on the criteria of SCD expedition• Make a recommendation on MP impact by continuing to expedite SCD (recommend based on funding requirements to higher authority?) <p>1-2 Star Review Board</p> <ul style="list-style-type: none">○ SCDs shall be batched and presented to the 1-2 Star for consideration on a periodic basis TBD○ Shall meet continuously on a virtual basis and consider expedited SCDs○ Endorse/override O-6 level SCD decisions○ Kill 1-2 Star level SCDs○ Continue development of 1-2 Star level SCDs, including ACAT 3○ Make recommendations for 3 Star level SCDs to be killed or continued○ Send back to submitter for rework	<ul style="list-style-type: none">○ Board Members

<ul style="list-style-type: none"> ○ Expedited SCDs will require the additional tasks: <ul style="list-style-type: none"> • Confirm expedited status still valid • 1-2 Star Board shall review, comment, and recommend on the criteria of SCD expedition • Make a recommendation on MP impact by continuing to expedite SCD (recommend based on funding requirements to higher authority?) <p>3 Star Review Board</p> <ul style="list-style-type: none"> ○ SCDs shall be batched and presented to the 3 Star for consideration on a periodic basis TBD ○ Shall meet continuously on a virtual basis and consider expedited SCDs ○ Endorse/override O-6 and 1-2 Star level SCD decisions ○ Kill 3 Star level SCDs ○ Continue development of 3 Star level SCDs, including ACAT 1 and 2 ○ Send back to submitter for rework ○ Expedited SCDs will require the additional tasks: <ul style="list-style-type: none"> • Confirm expedited status still valid • 3 Star Board shall review, comment, and recommend on the criteria of SCD expedition • Approve changes on MP impact by continuing to expedite SCD ○ Recommend Modernization Plan (annual) to CNO ○ Provide initial 2K data to preload 3M system. 	
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INPUT

- Ship Change Document complete including all minimum required data such as:
 - Updated AFOM
 - Updated CBA
 - Updated Tech Eval
 - (Recommendation from SPM to proceed to modify ship's platform)
- ACAT definitions per SECNAV instruction
- PARM, SPM and RS need to determine impact to existing MP for expedited SCDs (provide recommended offsets)

OUTPUT (DELIVERABLES)

O-6 Review Board

- Continue development of all approved O-6 level SCDs in the MP
- Recommendations for 1-2 Star and 3 Star level SCDs
- Killed O-6 level (non-expedited) SCDs
- SCDs to be clarified or reworked
- Concur/recommend development plan
- For expedited SCDs, shall concur with the requirement to continue to expedite, recommend to no longer expedite, or recommend kill
- Reprogramming/offsets for changed expedited SCDs and notification of budgetary impacts to all concerned

1-2 Star Review Board

- Endorse/override continuation of development of all approved O-6 level SCDs in the MP

- Continue development of all 1-2 Star level SCDs in the MP
- Recommendations for 3 Star level SCDs
- Killed 1-2 Star level (non-expedited) SCDs
- SCDs to be clarified or reworked
- Concur/recommend development plan
- For expedited SCDs, shall approve/concur with the requirement to continue to expedite, recommend to no longer expedite, or recommend kill
- Reprogramming/offsets for changed expedited SCDs and notification of budgetary impacts to all concerned

3 Star Review Board

- Endorse/override continuation of development of all approved O-6 and 1-2 Star level SCDs in the MP
- Continue development of all 3 Star level SCDs in the MP
- Killed 3 Star level SCDs
- SCDs to be clarified or reworked
- Approve development plan
- For expedited SCDs, shall approve the requirement to continue to expedite, approve to no longer expedite, or kill
- Reprogramming/offsets for changed expedited SCDs and notification of budgetary impacts to all concerned
- Approved Modernization Plan (annual)
- Provide initial 2K data to 3M.

METRICS

○

BUSINESS RULES (CRITERIA)

O-6 Review Board

- Considers (approve, kill, send back for rework) all SCDs submitted to the entitled process.
- If a SCD meets certain ACAT threshold O-6 group shall continue development or kill.
- If a SCD is above O-6 threshold, shall review, comment and recommend to kill or continue development.
- For SCDs with insufficient funding (due to cost growth or underestimating) and without adequate offsets identified, a recommendation for disposition shall be formulated and submitted to the 1-2 Star for approval.
- For expedited SCDs, shall concur with the requirement to expedite or recommend that the expedite flag be removed from the SCD.
- Shall concur with the recommended offsets SCDs or return to submitter for rework.

1-2 Star Review Board

- Endorse/override all recommendations for O-6 level SCDs.
- If a SCD meets certain ACAT threshold 1-2 Star group shall continue development or kill.
- If a SCD is above 1-2 Star threshold, shall review, comment and recommend to kill or continue development.
- For SCDs with insufficient funding (due to cost growth or underestimating) and without adequate offsets identified, a recommendation for disposition shall be formulated and submitted to the 3 Star for approval.
- For expedited SCDs, shall concur with the recommendation from the O-6 Board.

- All deflagged SCDs will continue through the process as a non-expedited SCD.
- Shall concur with the recommended offsets SCDs or return to submitter for rework.

3 Star Review Board

- Endorse/override all recommendations for O-6 and 1-2 Star level SCDs.
- If a SCD meets certain ACAT threshold 3 Star group shall continue development or kill.
- For SCDs with insufficient funding (due to cost growth or underestimating) and without adequate offsets identified, the disposition recommendations from the O-6 and 1-2 Star levels shall be approved or disapproved.
- Shall submit an annual Modernization Plan.
- For expedited SCDs, shall approve recommendations from the 1-2 Star Board. Shall concur with the recommended offsets SCDs or return to submitter for rework.
- All ACAT 1 and 2 programs and non-ACAT SCDs exceeding \$xxx will be reviewed at the 3 Star level.
- All ACAT 3 and 4 programs and non-ACAT SCDs exceeding \$xxx will be reviewed at the 1-2 Star level.
- All other SCDs will be reviewed at the O-6 level.
- Any SCD submitted for rework shall be returned to submitter.
- Any SCD returned for rework shall be resubmitted or recommended for termination with appropriate justification.
- Submitter shall be notified if their SCD is killed.
- Submitter shall be notified if their SCD has been authorized for design development.
- All SCD (active or inactive) data shall be maintained in NDE-NM (system level Business Rule).
- If the SCD is killed, no further resources shall be applied.
- Any expedited SCD provided for consideration shall include funding offsets required for the execution of the total program including CY and/or CY+1 requirements. Funding offsets identified shall have concurrence from applicable Resource Sponsors and PMs/PEOs. This would include the Fleet option of funding from Fleet maintenance funds.

NOTES/QUESTIONS

- Cost schedule and performance trade: considerations
- Offsets impacting one program to execute another
- Within crunch what is priority order? How does it affect MP?
- Whoever sits on the Board represents
- Include any related Conjunctive/Prerequisite SCDs to assist O-6 level SCDs
- Recommend budget, commencing POM 06 a .5 percent of TOA to permit procurement and installation execution

TASK TITLE: 25 - Rework

LEAD ORGANIZATION: PARM

SUPPORT ORGANIZATIONS: Submitter, Committees

GOAL/DESCRIPTION

To provide additional, revised or missing SCD data to support continuation of the Entitled Process for the SCD.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ <u>Identify missing or incorrect SCD data.</u>○ <u>Correct/provide requested SCD data.</u>	<ul style="list-style-type: none">○ O-6, 1-2 Star and 3 Star Review Boards○ Submitter

INPUT

- Required unclear, missing/incorrect data from Review Boards.

OUTPUT (DELIVERABLES)

- Revised SCD for resubmission.

METRICS

- FPY

BUSINESS RULES (CRITERIA)

- Rework is defined requirements that do not change the scope of work (10% rule) and/or the intent of the SCD.
- Request for rework will be sent back to the submitter for additional data and/or clarification.
- Submitter may elect not to resubmit a revised SCD, but shall provide to the appropriate Review Board a justification for the non-resubmission.
- Initial response with a POAM (time and costs) shall be provided by the submitter within 30 days of receipt deficiency.
- Submitter shall provide a revised SCD to Entitled Process for reconsideration at the appropriate Decision Point.
- Tech Eval, AFOM and CBA will be updated with the revised SCD information as required.

NOTES/QUESTIONS

TASK TITLE: 26 - Acquisition Milestone C (ACAT)

LEAD ORGANIZATION: Milestone Decision Authority

SUPPORT ORGANIZATIONS: Applicable DASN/PEO/Program Manager

GOAL/DESCRIPTION

Execute an Acquisition Program Milestone Decision for an ACAT Program considered under the Entitled Process as an SCD.

SUB TASKS

RESPONSIBILITY

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <ul style="list-style-type: none">○ An SCD meeting the requirements of DOD 5000/SECNAV Instruction 5000.2B for designation as an ACAT Program will be managed in accordance with Applicable Acquisition Program Regulations and Instructions. | Program Manager |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

INPUT

- Statutory and regulatory documentation for ACAT programs in accordance with DOD 5000/SECNAV 5000 Series Instructions as required by the Milestone Decision Authority (MDA).
- Decision Point 3 recommendation for the SCD from the Entitled Process.
- Resource Sponsor full funding commitment for Production and Deployment, and logistics elements.

OUTPUT (DELIVERABLES)

- MDA Acquisition Decision Memorandum and approval to enter Production and Deployment Phase of an Acquisition program documented in NDE and attached to the SCD through CYBERDOCS.

METRICS

BUSINESS RULES (CRITERIA)

- If a program is identified and designated as an ACAT program in accordance with DOD 5000/SECNAV Instruction 5000.2B, the cognizant program manager will engage designated milestone authority for an acquisition milestone decision.

NOTES/QUESTIONS

- Identify MDA format for inclusion in NDE.

TASK TITLE: 27 Authorize and Issue LOA

LEAD ORGANIZATION:

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

SUB TASKS

RESPONSIBILITY

○

○

INPUT

○

OUTPUT (DELIVERABLES)

○

METRICS

○

BUSINESS RULES (CRITERIA)

○

NOTES/QUESTIONS

TASK TITLE: 28 Headquarters Centrally Procured Material (HCPM)

LEAD ORGANIZATION:

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

SUB TASKS

RESPONSIBILITY

○

○

INPUT

○

OUTPUT (DELIVERABLES)

○

METRICS

○

BUSINESS RULES (CRITERIA)

○

NOTES/QUESTIONS

○

Process Map: 30 April 04

Date: 3 May 04

TASK TITLE: 29 – POM (YY) Input to Modernization Plan

LEAD ORGANIZATION: OPNAV Resource Sponsors (N43/N6/N7)

SUPPORT ORGANIZATIONS: ISEA, SYSCOM, SPM, NAVSEA 017

GOAL/DESCRIPTION

Update “Modernization Plan” with greater fidelity budget estimates for total cost of modernization alterations, as determined during Phase II Cost Benefit Analysis. This will be the cost estimate as part of the ship phasing plan throughout the FYDP.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Use updated CBA Cost Estimate to identify total cost of each alteration as part of ship phasing plan○ Update PARM Fielding Plans to identify alteration installations across ship classes throughout the FYDP	<ul style="list-style-type: none">○ Independent Cost Assessment Team (SMEs) led by NAVSEA 017○ PARM

INPUT

- Funding Decision Board “Approval” Decision
- PARM Fielding Plans
- ACAT Milestone “B” Data (if applicable)

OUTPUT (DELIVERABLES)

-

METRICS

- Refer to CFT 4 Entitled Metrics Team

BUSINESS RULES (CRITERIA)

- Budget estimate must be within +/- 25%.
- Total costs for all alterations must be identified in the Modernization Plan

NOTES/QUESTIONS

- We want to capture the “tolerance range” for estimates to go into a historical file to help determine how “valid” our estimates are (for historical metrics, program management purposes and in order to improve our estimates for “repeat” alts or similar installations).

TASK TITLE: 20 – Update Technical Assessment

LEAD ORGANIZATION: Ship Program Manager (SPM) – (PEO Ships FT & PEO Carriers TD)

SUPPORT ORGANIZATIONS: PARM's, SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Review draft Phase III SCD and provide recommendations to the SPM that do not include any subjective opinion of merit. All candidates for change shall receive fair, unbiased assessments by 'Entitled' Technical Assessment Team (TAT).

SUB TASKS	RESPONSIBILITY
BLOCK 4 <ul style="list-style-type: none"> Receives Draft Phase III SCD and supporting documentation. 	<ul style="list-style-type: none"> Change Manager
BLOCK 5 <ul style="list-style-type: none"> Draft Phase III SCD forwarded to Planning Yard as required. 	<ul style="list-style-type: none"> Change Manager
BLOCK 6 <ul style="list-style-type: none"> Planning Yard reviews/completes draft SCD Phase III as necessary. 	<ul style="list-style-type: none"> Planning Yard
BLOCK 7 <ul style="list-style-type: none"> Assign TAT Lead. Distribute change to TAT Lead. Assign due date for review. 	<ul style="list-style-type: none"> Change Manager
BLOCK 8 <ul style="list-style-type: none"> Assess the description and impacts of proposed change. Communicate with originator to resolve issues if necessary. Identify conjunctive changes and existing changes that may be superceded/impacted. Review and provide assessment to Change Manager. Determine supporting documentation required. 	<ul style="list-style-type: none"> TAT Lead
BLOCK 9 <ul style="list-style-type: none"> Review/resolve issues. Schedule change for Configuration Change Board (CCB). 	<ul style="list-style-type: none"> Change Manager
BLOCK 10 <ul style="list-style-type: none"> Conduct CCB. Determine and document recommendation. Forward recommendation to SPM. 	<ul style="list-style-type: none"> CCB Chairman

<p>BLOCK 11</p> <ul style="list-style-type: none"> ○ Returns draft SCD Phase III to TAT Lead for resolution of issues. ○ Forwards recommendation to AFOM/CBA. 	<ul style="list-style-type: none"> ○ SPM
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INPUT

- Draft SCD PIII and supporting documentation

OUTPUT (DELIVERABLES)

- SPM endorsed SCD PIII

METRICS

- How many changes get recommended/not recommended by SPM?
- How many changes does the SPM return for clarification?
- Time between subtasks?

BUSINESS RULES (CRITERIA)

- SPM will task PY to develop Draft PIII from supporting documentation if required.
- Should the SPM require additional clarification, endorsement will not be forwarded prior to attempting issue resolution via TAT Lead.
- Unresolved issues will be noted in the Technical review comments and forwarded.
- Technical review will include updated information from Phase II.

TASK TITLE: 20 (a) – Update Technical Evaluation

LEAD ORGANIZATION: Ship Program Manager (SPM) – (PEO Ships FT & PEO Carriers TD)

SUPPORT ORGANIZATIONS: PARM's, SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Review preliminary specifications and provide recommendations to the SPM that do not include any subjective opinion of merit. All candidates for change shall receive fair, unbiased assessments by 'Entitled' Technical Assessment Team (TAT).

SUB TASKS	RESPONSIBILITY
BLOCK 4 <ul style="list-style-type: none"> ○ Change Manager receives Draft Phase II(a) SCD and supporting documentation (if required) and coordinates review. ○ Determine Cognizant Authorities and Technical Warrant Holder as necessary. ○ Distribute change to Cognizant Authority and Technical Warrant Holder. ○ Assign due date for reviews. 	<ul style="list-style-type: none"> ○ Change Manager
BLOCK 5 <ul style="list-style-type: none"> ○ Assess the description, feasibility and impacts of proposed change. ○ Communicate with originator to resolve issues if necessary. ○ Identify conjunctive changes and existing changes that may be superseded or impacted. ○ Determine additional supporting documentation, as required. (Technical Data Package, ICD, Topside/EMI/RCS studies, etc) ○ Review and assess change. ○ Provide assessment to PEO Carrier/Ships Change Manager. 	<ul style="list-style-type: none"> ○ TAT Lead
BLOCK 6 <ul style="list-style-type: none"> ○ Reviews/resolves issues as required ○ Schedule change for Configuration Change Board. (CCB) 	<ul style="list-style-type: none"> ○ Change Manager
BLOCK 7 <ul style="list-style-type: none"> ○ Conduct CCB. ○ Determine and document recommendation. ○ Forward recommendation to SPM. 	<ul style="list-style-type: none"> ○ Change Manager/CCB Chairman
BLOCK 8 & 9 <ul style="list-style-type: none"> ○ SPM forwards recommendation to AFOM/CBA. ○ SPM returns draft SCD Phase II (a) to PARM/TYCOM for re-work. 	<ul style="list-style-type: none"> ○ SPM

INPUT

- Draft SCD Phase II (a)
- Supporting documentation as required

OUTPUT (DELIVERABLES)

- Completed Technical Section of SCD Phase II (a)

METRICS

- Time between subtasks
- How many changes get recommended/not recommended by CCB?
- How many changes does the SPM recommend for rework?

BUSINESS RULES (CRITERIA)

- Should the SPM require additional clarification, endorsement will not be forwarded prior to attempting issue resolution via TAT Lead.
- Unresolved issues will be noted in the Technical review comments and forwarded.
- Technical review will include the following information:
 - Prototype required
 - Conjunctive changes identified
 - Identify activity to develop Phase III SCD.
 - Supporting documentation required
 - Superseded or redundant change
 - FORCENET compliant

TASK TITLE: 30 – Technical Implementation

LEAD ORGANIZATION: Ship Program Manager (SPM) – (PEO Ships FT & PEO Carriers TD)

SUPPORT ORGANIZATIONS: PARM's, SYSCOM's, PEO's, ISEA's,
PLANNING YARDS

GOAL/DESCRIPTION

Perform detail design and procurement.

SUB TASKS	RESPONSIBILITY
BLOCK 2 Complete design requirements as required.	○ PARM/TYCOM/SPM
BLOCK 3 ○ If internal equipment or software change, PARM/TYCOM takes procurement action. ○ If ship or shore site modification authorize drawing development as required.	○ PARM/TYCOM
BLOCK 4 ○ Drawing development.	○ Design Activity
BLOCK 5 ○ Procure non-HCPM, software, installation kits and associated logistics as required.	○ PARM/TYCOM/Installation Activity/ Planning Yard
BLOCK 6 ○ Provide pre-installation certifications and qualifications identified in SCD Phase III. Identify post installation certifications and qualifications.	○ PARM/TYCOM

INPUT

- Approved SCD Phase III

OUTPUT (DELIVERABLES)

As required:

- Approved Drawings
- Completed studies and pre-installation certifications and qualifications
- Non-HCPM, software, installation kits and associated logistics

METRICS

- Time between subtasks

BUSINESS RULES (CRITERIA)

- Drawings, change instructions, material procurement and logistics will be developed or accomplished as required utilizing internal processes.
- Planning Yard develops SIDs and reviews Design Activity SIDs
- If designated on SCD Phase III, Planning Yard shall forward SIDs to appropriate NAVSEA code for review.
- NAVSEA will review forwarded SIDs identified in SCD Phase III for technical adequacy and accuracy.
- Upon completion of review by NAVSEA, Planning Yard will incorporate comments and approve final SIDs.

TASK TITLE: 31 – (PY Activity) Technical Implementation

LEAD ORGANIZATION: Ship Program Manager (SPM)(PEO Ships FT & PEO Carriers TD)

SUPPORT ORGANIZATIONS: PARM's, SYSCOM's, PEO's, ISEA's

GOAL/DESCRIPTION

Perform detail design and procurement

SUB TASKS	RESPONSIBILITY
Blocks 2 - 9	
BLOCK 2	○ Sponsoring Activity/SPM
○ Task design requirements identified in SCD Phase III to support SID development	
BLOCK 3	○ Sponsoring Activity
○ If internal equipment or software change, Sponsoring Activity takes procurement action	○ SPM
○ If platform change, SID development will be authorized.	
BLOCK 4	○ Sponsoring Activity/Installation Activity/ Planning Yard
○ Procure non-HCPM or software and associated logistics.	
BLOCK 5	○ Sponsoring Activity/SPM
○ SID development tasked	
BLOCK 6	○ Design Activity
○ Design Activity develops initial SIDs	
BLOCK 7	○ Planning Yard
○ Planning Yard develops SIDs or reviews Design Activity SIDs	
BLOCK 8	○ Planning Yard
○ Planning Yard approves final SIDs	
BLOCK 9	○ Sponsoring Activity
Provide pre-installation certifications and qualifications identified in SCD Phase III. Identify post installation certifications and qualifications.	

INPUT

- Approved SCD PIII and supporting documentation

OUTPUT (DELIVERABLES)

- Approved SIDs
- Completed studies and pre-installation certifications and qualifications
- Non-HCPM or software and associated logistics.

METRICS

- Time between subtasks

BUSINESS RULES (CRITERIA)

- SPM will task PY to develop Draft PIII from supporting documentation if required.
- During the technical review, if changes are made to the Draft Phase III, the sponsoring activity and PY will be notified.
- Should the SPM require additional clarification sponsoring activity will be notified and endorsement will not be forwarded to AFOM/CBA.
- SPM recommendation will include the following information from the CCB:
 - Conjunctive changes identified
 - Superseded/redundant change recommendation
 - Supporting documentation not previously identified.

TASK TITLE: 32 - Alt/Mod Ready to Install (SPM)

LEAD ORGANIZATION: Ship Program Manager

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

Release SCD based on determination that SCD is mature and ready for installation.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Determine that all certifications have been accomplished.○ Determine that all testing has been accomplished.○ Approve initial installation plans.<ul style="list-style-type: none">● <u>Evaluate installation risk.</u>	<ul style="list-style-type: none">○ SPM

INPUT

- Submitter provides complete documentation as required and identified in Tech Eval process.
- Submitter provides verification of complete certification as required and identified in Tech Eval process.

OUTPUT (DELIVERABLES)

- Approval for initial installation plans.
- Disapproval with requirements for approval.
- Activate preloaded 2K(s).

METRICS

-

BUSINESS RULES (CRITERIA)

- Determine that testing/certifications as defined by Tech Eval process are complete and approved, and if so, installation is approved.
- Submitter may apply for a waiver of requirement to include POAM for correction of waiver and target date.
- SPM may accept or deny waiver request and if denied, provide rationale.
- SPM may return SCD to submitter with outstanding requirements to receive approval.
- Process will be required to track all waiver conditions to closure.
- Evaluate installation risk.
- SPM's approval triggers preloaded 2K(s).

NOTES/QUESTIONS

- Risk assessment requirement needs to be assigned.

TASK TITLE: 33 – Execute Initial Installations

LEAD ORGANIZATION: Executing Activity

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

Execution of initial SCD installation and provide feedback.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Provide feedback.<ul style="list-style-type: none">• Cost• CM• Performance spec.• Schedule• ILS○ QA	<ul style="list-style-type: none">○ Executing Activity• Executing Activity/NSA

INPUT

- Feedback data from the NMD database.

OUTPUT (DELIVERABLES)

- Feedback information will be provided at the SCD level.

METRICS

BUSINESS RULES (CRITERIA)

- The execution return cost data is collected after the completion of the installation.
- The execution return cost consistent with the work breakdown structure used in the CBA will be used to adjust the Modernization Plan as required.
- Close 2K(s) upon successful completion.
- Close 4790 CK(s) upon successful completion.

NOTES/QUESTIONS

- Require transparent data exchange between NMD and NDE databases.

TASK TITLE: 34 - Feedback: Cost, CM, Performance, Schedule, ILS from initial install

LEAD ORGANIZATION: Executing Activity

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

Provide feedback data to support future installation decisions.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Provide feedback.<ul style="list-style-type: none">● Cost● CM● Performance spec.● Schedule● ILS○ QA	<ul style="list-style-type: none">○ Executing Activity● Executing Activity/NSA

INPUT

- Feedback information into SCD by SCD number.

OUTPUT (DELIVERABLES)

- Updated CM, Performance, Schedule, Cost and ILS data.

METRICS

-

BUSINESS RULES (CRITERIA)

- The execution return cost data is collected after the completion of the initial installation plan.
- The execution return cost consistent with the work breakdown structure used in the CBA will be used to adjust the Modernization Plan as required.
 - Updated data will be loaded into the appropriate CBA/Tech Eval.

NOTES/QUESTIONS

- Require transparent data exchange between NMD and NDE databases.

TASK TITLE: 35 - Future Installs or Rework

LEAD ORGANIZATION: SPM

SUPPORT ORGANIZATIONS: Executing Activity

GOAL/DESCRIPTION

Assess risk to future installation plan and make decision to continue the future installations as planned.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Assess risk based on information from initial installation plan.○ Decide to adjust future installation plan.	<ul style="list-style-type: none">○ SPM/PM/PARM○ SPM/PM/PARM

INPUT

- Updated CM, Performance, Schedule, Cost and ILS data from initial installation plan.

OUTPUT (DELIVERABLES)

- Decision to continue or rework.

METRICS

-

BUSINESS RULES (CRITERIA)

- Evaluate installation risk for future installation planning.
- The variances against the previous AFOM, CBA and Tech Eval will be evaluated against the threshold limits (dollar or percent) determined by the appropriate SPM/PM/PARM.
- The potential impacts to schedule or cost shall be provided by the submitter with the concurrence of the Fleet and SPM/PM/PARM.

NOTES/QUESTIONS

-

TASK TITLE: 36 - Rework

LEAD ORGANIZATION: PARM

SUPPORT ORGANIZATIONS: Submitter, Committees

GOAL/DESCRIPTION

To provide additional, revised or missing SCD data to support continuation of the Entitled Process for the SCD installation.

SUB TASKS

- Identify installation-related issues.
- Identify required SCD modifications.

RESPONSIBILITY

- Submitter
- Submitter

INPUT

- Installation-related issues.

OUTPUT (DELIVERABLES)

- Recommendations provided to CBA, Tech Eval or AFOM for reconsideration at Decision Point 3.

METRICS

- FPY

BUSINESS RULES (CRITERIA)

- Based on a TBD threshold, some SCDs will not be reworked.
- Rework is defined requirements that do not change the scope of work and/or the intent of the SCD.
- Request for rework will be sent back via submitter for proposed resolution of identified installation issues.
- Submitter may elect not to resubmit a revised SCD, but shall provide to the appropriate Review Board a justification for the non-resubmission.
- Initial response with a POAM (time and costs) shall be provided by the submitter within 30 days of receipt deficiency.
- Submitter shall provide a revised SCD to Entitled Process for reconsideration at the appropriate Decision Point.
- Tech Eval, AFOM and CBA will be updated with the revised SCD information as required.

NOTES/QUESTIONS

- Modify process map to route rework back to Block 20 (update Tech Eval).
- Meaning of “issues”? (financial, schedule, technical, material delivery, ETC).

TASK TITLE: 37 - Complete Future Installs

LEAD ORGANIZATION: Executing Activity

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

Completion of all SCD installations and provide feedback.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Provide feedback.<ul style="list-style-type: none">• Cost• CM• Performance spec.• Schedule• ILS○ QA	<ul style="list-style-type: none">○ Executing Activity• Executing Activity/NSA

INPUT

- Feedback data from the NMD database.

OUTPUT (DELIVERABLES)

- Feedback information will be provided at the SCD level.

METRICS

-

BUSINESS RULES (CRITERIA)

- The execution return cost data is collected after the completion of each installation.
- The execution return cost consistent with the work breakdown structure used in the CBA will be used to adjust the Modernization Plan as required.
- Close 2K(s) upon successful completion.
- Close 4790 CK(s) upon successful completion.

NOTES/QUESTIONS

- Require transparent data exchange between NMD and NDE databases.

-

TASK TITLE: 38 - Feedback: Cost, CM, Performance, Schedule, ILS from follow-on installations

LEAD ORGANIZATION:

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

Provide feedback data to support future installation decisions or pass SCD to history in NDE.

SUB TASKS	RESPONSIBILITY
<ul style="list-style-type: none">○ Provide feedback.<ul style="list-style-type: none">• Cost• CM• Performance spec.• Schedule• ILS○ QA○ Pass to history	<ul style="list-style-type: none">○ Executing Activity○ Executing Activity/NSA○ SPM

INPUT

- Feedback information into SCD by SCD number.

OUTPUT (DELIVERABLES)

- Updated CM, Performance, Schedule, Cost and ILS data.
- Upon completion of all scheduled installations, move SCD to history.

METRICS

-

BUSINESS RULES (CRITERIA)

- The execution return cost data is collected after the completion of the follow-on installations.
- The execution return cost consistent with the work breakdown structure used in the CBA will be used to adjust the Modernization Plan as required.
 - Updated data will be loaded into the appropriate CBA/Tech Eval.

NOTES/QUESTIONS

- Require transparent data exchange between NMD and NDE databases.

TASK TITLE: 39 - NDE

LEAD ORGANIZATION: SEA 04

SUPPORT ORGANIZATIONS:

GOAL/DESCRIPTION

To document completion of SCD installations and pass to history.

SUB TASKS

RESPONSIBILITY

- | | |
|------------------------------------------------------------------|--------------|
| ○ Track and document completion of all applicable installations. | ○ SEA 04/SPM |
|------------------------------------------------------------------|--------------|

INPUT

- Reported completion by Executing Activity and confirmation from SPM.

OUTPUT (DELIVERABLES)

- Searchable history file.

METRICS

-

BUSINESS RULES (CRITERIA)

- Executing Activity will report all completions.
- SPM will verify and report all completions.
- The system (NDE) will reflect completions and validations.

NOTES/QUESTIONS

-